STR-A27/D209/D259

SERVICE MANUAL

STR-A27, STR-D209 and STR-259 are the tuner and amplifier section in LBT-A27CDM, LBT-D209CD and LBT-D259CD respectively.

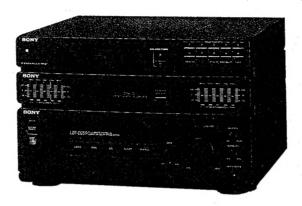


PHOTO: STR-D259

FILL Canadian Model AEP Model UK Model E Model Australian Model

SPECIFICATIONS

Stereo FM-AM receiver

Tuner System

FM stereo

FM/AM superheterodyne tuner

FM tuner section

Tuning range

87.5 to 108 MHz (EXCEPT EE)

65.0 to 74.0 MHz (EE)

Antenna

75 ohms unbalanced

Intermediate frequency

10.7 MHz

AM tuner section

Tuning range

MW:530 to 1710 kHz (Canadian model)

522 to 1611 kHz (Italian model) 531 to 1602 kHz (9 kHz step)

531 to 1710 kHz (10 kHz step)

531 to 1602 kHz (Other models)

LW:153 to 279 kHz

SW:5.95 to 17.90 kHz (Mideasten model)

Antenna

AM loop antenna

External antenna terminal

Intermediate frequency

450 kHz

Amplifier

DIN power output

30 W + 30 W (6 ohms, at 1 kHz)

Continuous RMS power output

35 W + 35 W (6 ohms, at 1 kHz, 5%

Music power output

60 W + 60 W (6 ohms)

Input	Jack type	Sensitivity	Impedance		
VIDEO IN	DEO IN Phono		47 kohms		
PHONO IN	Phono	3 mV	47 kohms		

Output Jack type		Impedance
SURROUND SPEAKER	Phono	Accepts speakers of 16 ohms
HEADPHONES	Stereophone	Accepts headphones of 8 ohms or more

(E model) Frequency response

General

Mass

Dimensions

Power requirements

Power consumption

220 - 230 V AC, 50/60 Hz(AEP, IT, EE, G) 120 V AC, 60 Hz (CND)

VIDEO: 15 Hz to 50 kHz +0 dB

240 V~AC, 50 Hz (UK) 110 - 120 V/220 - 240 V~AC,

50 Hz/60 Hz (E, AUS)

100 W (AEP, AE2, IT, EE, G, UK)

115 W (CND)

170 W (E, AUS, AU2)

Approx. 5.9 kg

Approx. $355 \times 225 \times 330 \text{ mm}$ (w/h/d, including projections)



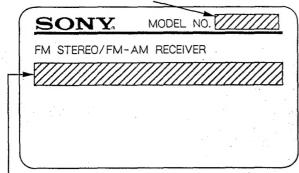
STEREO FM-AM RECEIVER SONY

TABLE OF CONTENTS

MODEL IDENTIFICATION —

(Specification Label)

STR-A27, STR-D209, STR-D259



- CND model : AC : 120V 60Hz 115W

- AEP, IT, EE, G model : AC : 220V-230V~50/60Hz

100W

UK model: AC: 240V~50Hz 100W E, AUS model: AC: 110-120V/220-

240V~50/60Hz 170W

Note: CND : Canadian model

> G : German

IT : Italian model FF : East European model

AUS, AU2: Australian model

CAUTION

Be sure to use insulation sheet (A4-959-364-01) when replacing power transformer because it is safely related part.

SAFETY-RELATED COMPONENT WARNING!!

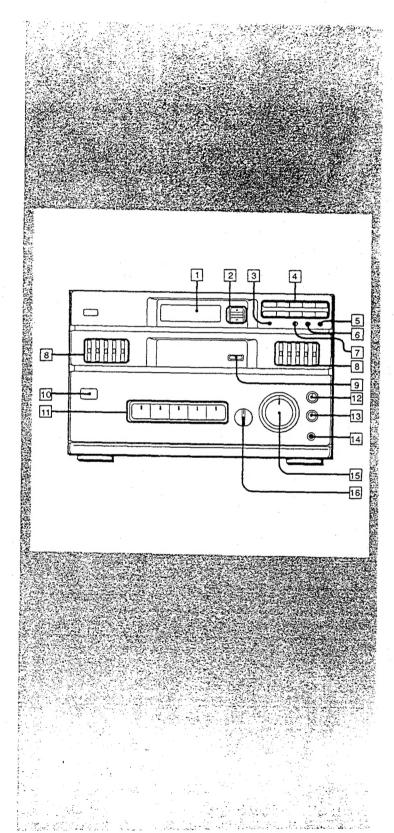
COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUB-LISHED BY SONY.

<u>Title</u> Section Page 1. GENERAL 3 2. DISASSEMBLY 2-1. Front Panel 4 2-2. Panel Board 4 2-3. Amplifier Board······ 5 2-4. Main/Tuner Board · · · · · 5 3. ADJUSTMENT 6 4. DIAGRAMS 4-1. Schematic Diagram — Tuner Section — · · · · · 7 4-2. Printed Wiring Board - Main Section - · · · · 11 4-3. Schematic Diagram - Main Section - 15 4-4. Schematic Diagram — Display Section — · · · · 19 4-5. Printed Wiring Board - Display Section - 23 4-6. Circuit Boards Location · · · · · 26 4-7. Semiconductor Lead Layouts 26 5. EXPRODED VIEWS 5-2. Back Panel Section · · · · 29 6. ELECTRICAL PARTS LIST · · · · · 30

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COM-POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 **GENERAL**



This section is extracted from instruction manual.

Location of

Refer to the pages indicated in parentheses for details.

Tuner

- ① Display window
 ② DUAL MODE TUNING +/- buttons (20, 22)

- (20, 22)

 3 MEMORY button (22)

 4 Numeric buttons (22)

 5 SHIFT button (22)

 6 BAND SELECT button (20)

 7 ST/MUTE button (20,22)

Graphic Equalizer

- **8** 5 BAND GRAPHIC EQUALIZER controls (16)

 EQUALIZER switch (16)

Amplifier

- M SYSTEM POWER button (14)
- 11 Function selectors and indicators (VIDEO/TAPE/CD/TUNER/PHONO)

- (VIDEO/1APE/CD/1UNEH/PHONO)

 12 BALANCE control (16)

 13 SURROUND control (16)

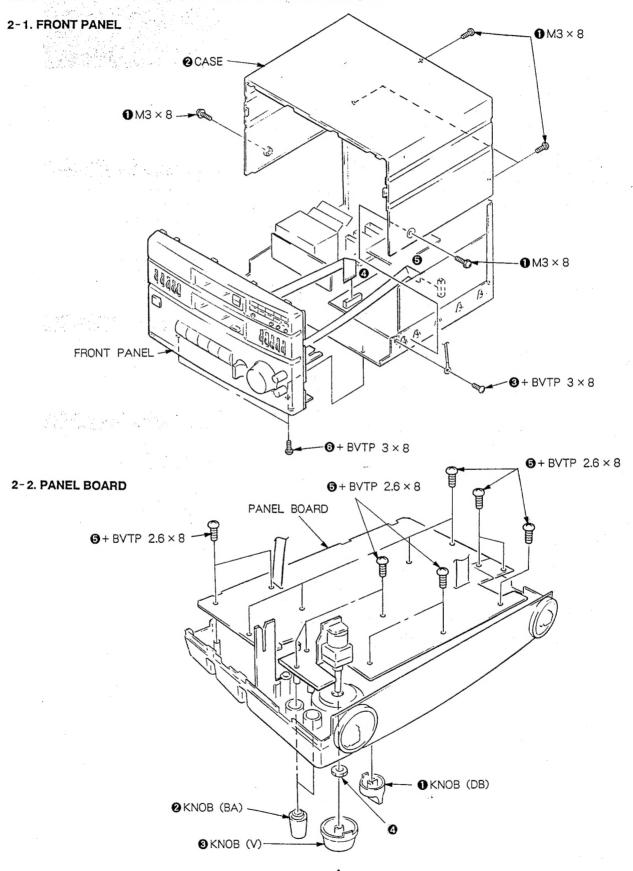
 14 HEADPHONES jack

 15 VOLUME control and indicator (16)

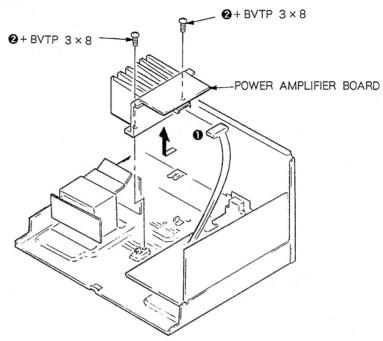
 16 DBB (dynamic bass feedback) control

SECTION 2 DISASSEMBLY

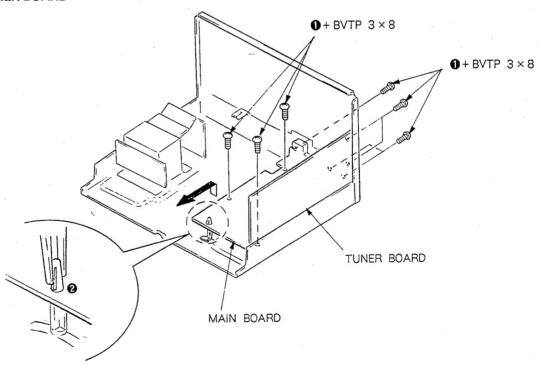
NOTE: Follow the disassembly procedure in the numerical order given.



2-3. POWER AMPLIFIER BOARD



2-4. MAIN /TUNER BOARD



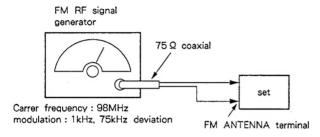
SECTION 3 ADJUSTMENTS

Note: As a front-end (FE301) is difficult to repair if faulty, replace it with new one.

TUNER SECTION

FM SECTION ADJUSTMENTS

Setting:



• TUNER OUT CHECK POINT

Speaker out receive 98MHz 60dB μ (1mV) and set the SPEAKER out to 10dBs by VOLUME.

Speaker load: 6Ω both CH

FM NULL Adjustment

Procedure:

- 1. Supply a 60dB μ (1mV) 98MHz signal from the ANTENNA terminal.
- 2. Tune the set to 98MHz.
- 3. Adjust T301 for 0V reading on the measurement point.

FM Tuned Indication Lighting Level Adjustment

Band : FM

ST/MUTE SW: OFF

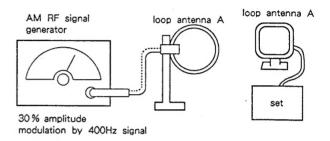
Procedure:

- 1. Supply a 24 \pm 1 μ V (20 \pm 4dB μ (EE)) (25 \pm 4dB μ (EXCEPT EE)) 98MHz signal from the ANTENNA terminal.
- 2. Tune the set to 98MHz.
- 3. Adjust RV302 so that the FL601 TUNED light up.

Adjustment Location: main board

 Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by trimmer capacitors.

AM SECTION ADJUSTMENT Setting:



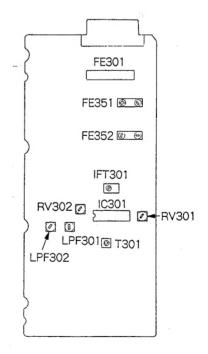
AM Tuned Indication Lighting Level Adjustment

Band: AM

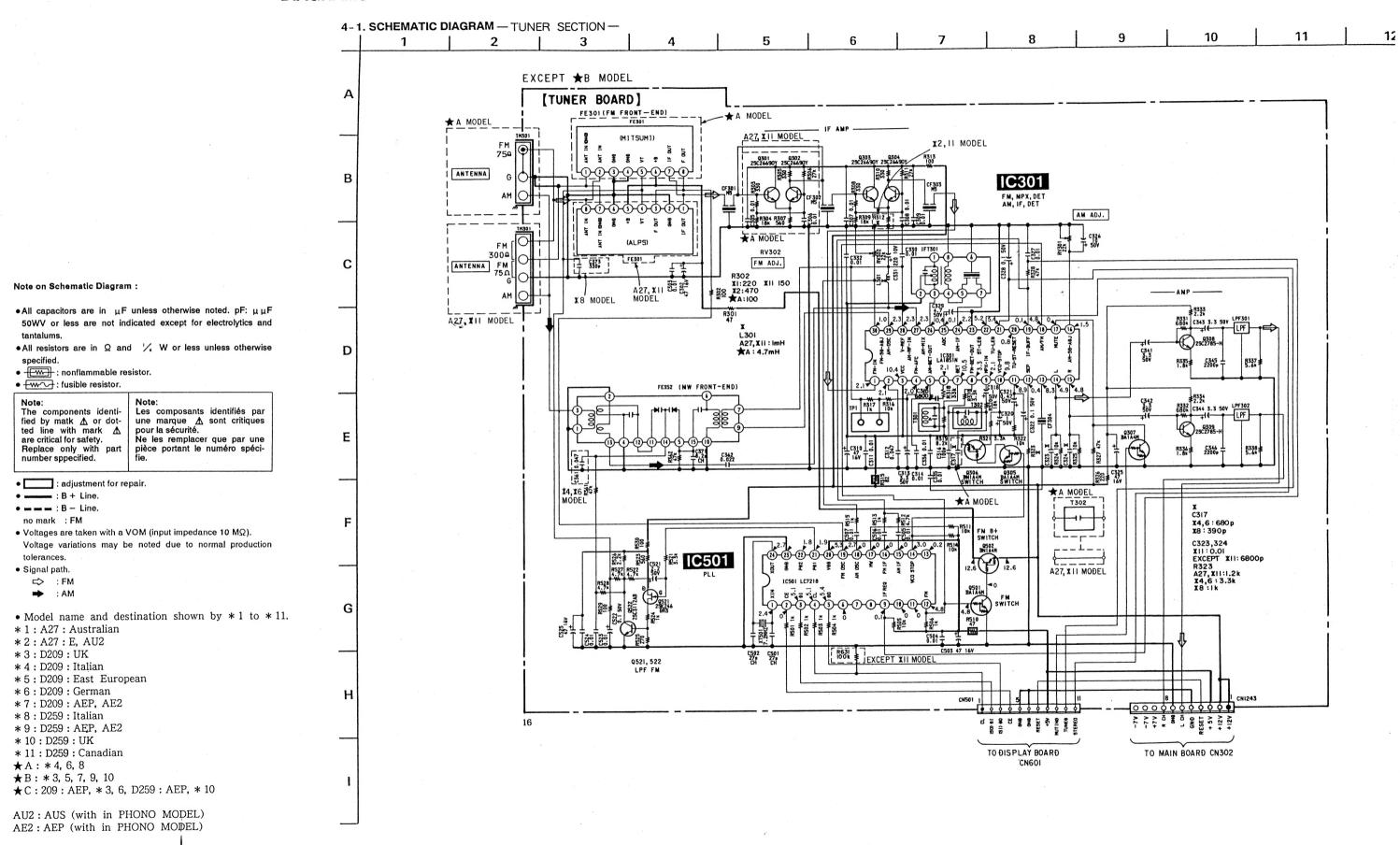
Procedure:

- 1. Set loop antenna input level to $94 {\rm dB} \mu/{\rm m}$, 1050 kHz and no signal tuned light should not on.
- 2. Ture the set to 1050kHz
- 3. Adjust RV301 so that the FL601 TUNED light up.

Adjustment Location: tuner board



SECTION 4 DIAGRAMS



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★B MODEL [TUNER BOARD] EXCEPT XIO MODEL FE301 (FM FRONT - END)
FE301 X3,5,10 MODEL ANTENNA 9303 9304 25C26690Y 25C26690Y IC301 FM, MPX,DET AM, IF,DET 3000 ANTENNA FM ADJ. AM ADJ. FE351 (SW FRONT — END) XIO MODEL EXCEPT XIO Q308,309 AMP)-(5)-(5) 1552 1 C323 C324 6800, 6800p Q305,306 SWITCH Q502 FM B + SWITCH FM SWITCH Q521,522 LPF FM Q531,532 LPF AM IC501 CN1243 TO DISPLAY BOARD TO MAIN BOARD CN302

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• Semiconductor Location

Ref No	Location	Ref. No.	Location
D351 (B) D1201	E-6 E-19	1C1306 1C1601	C-12 J-19
D1202 D1203 D1204 D1205 D1251 D1302 D1303 D1304 D1305 D1306 D1307 D1309 D1311 D1316 D1317 D1318 D1319 D1321 D1322 D1323 D1324 D1341 D1345 D1345 D1347 D1355 D1368 D1369 D1370	E-15 E-15 G-15 G-19 E-12 E-12 E-12 E-13 J-23 I-24 H-12 J-13 D-14 B-27 C-213 I-13 J-16 B-25 D-14 J-13 J-24	0301 (E) 0302 (E) 0303 (B) 0304 (E) 0304 (B) 0305 (E) 0305 (B) 0306 (B) 0307 (E) 0307 (E) 0308 (E) 0309 (E) 0309 (E) 0309 (E) 0351 (B) 0352 (B) 0353 (B) 0354 (B) 0355 (B) 0355 (B) 0356 (B) 0356 (B) 0351 (E) 0501 (E) 0501 (E) 0502 (E)	D-3 D-3 E-7 E-7 I-7 I-7 I-7 H-9 H-4 H-9 D-7 E-7 E-7 E-7 E-7 E-7 E-4 B-4
10301 (E) 10301 (B) 10501 (E) 10501 (B) 101001 101002 101003 101201 101202 101302 101303 101304 101305	G-2 G-7 E-4 E-9 D-11 I-11 F-20 F-15 J-12 I-14 H-13 H-14	0522 (B) 0531 (B) 0532 (B) 01201 01202 01203 01204 01251 01301 01302 01304 01305	B-9 D-8 C-9 E-19 H-18 H-15 G-19 J-23 J-13 I-15 I-15

(B): ★B

(E) : EXCEPT ★ B

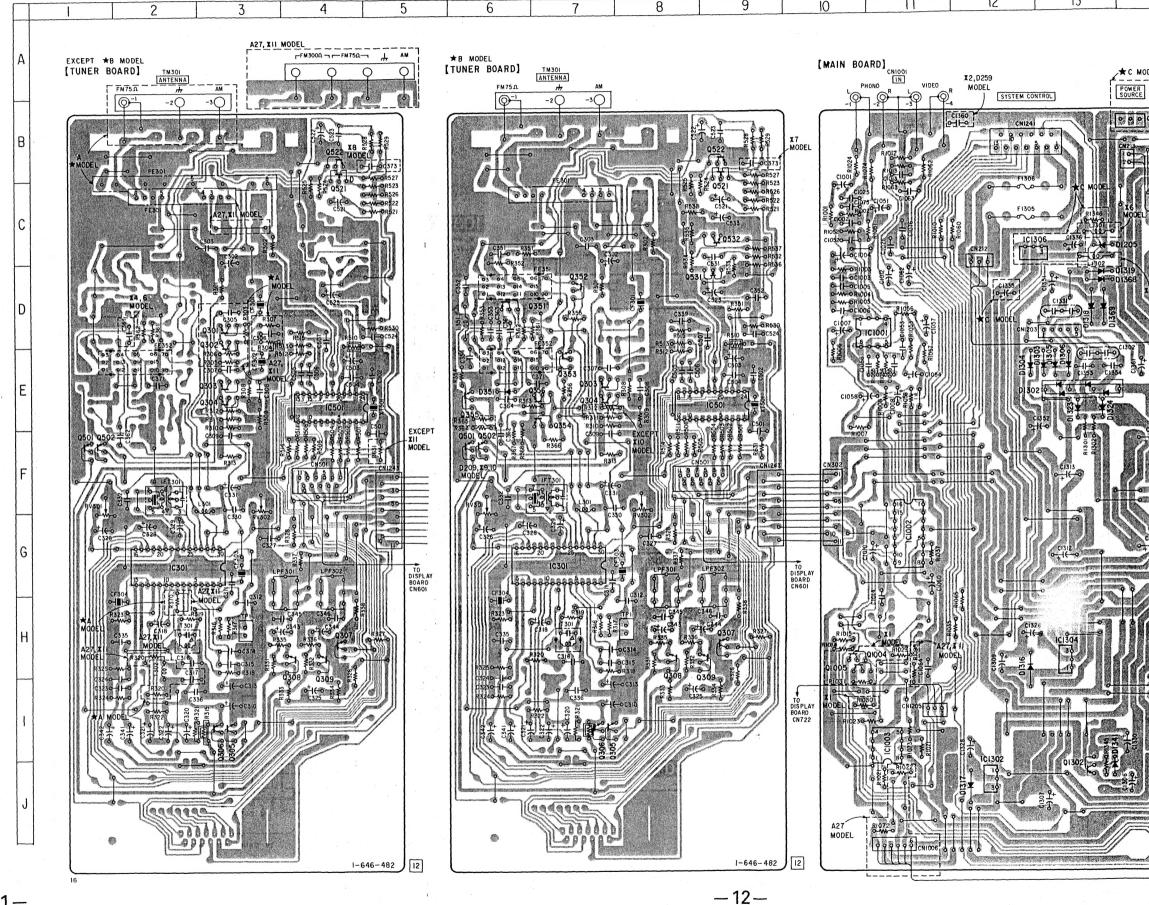
Note on Mounting Diagram:

- : Parts extracted from the component side.
- Pattern on the side which is seen.
- Model name and destination shown by *1 to *11.
- * 1 : A27 : Australian * 2 : A27 : E, AU2 * 3 : D209 : UK * 4 : D209 : Italian

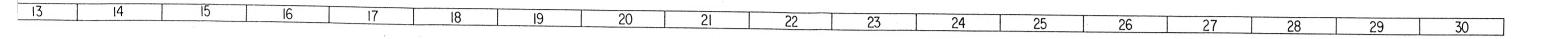
- *5:D209:East European
- * 6: D209: German * 7: D209: AEP, AE2
- *8: D259: Italian
- * 9 : D259 : AEP, AE2 . * 10 : D259 : UK
- * 11 : D259 : Canadian ★A: *4, 6, 8
- ★B: *3, 5, 7, 9, 10
- ★C: 209: AEP, *3, 6, D259: AEP, *10

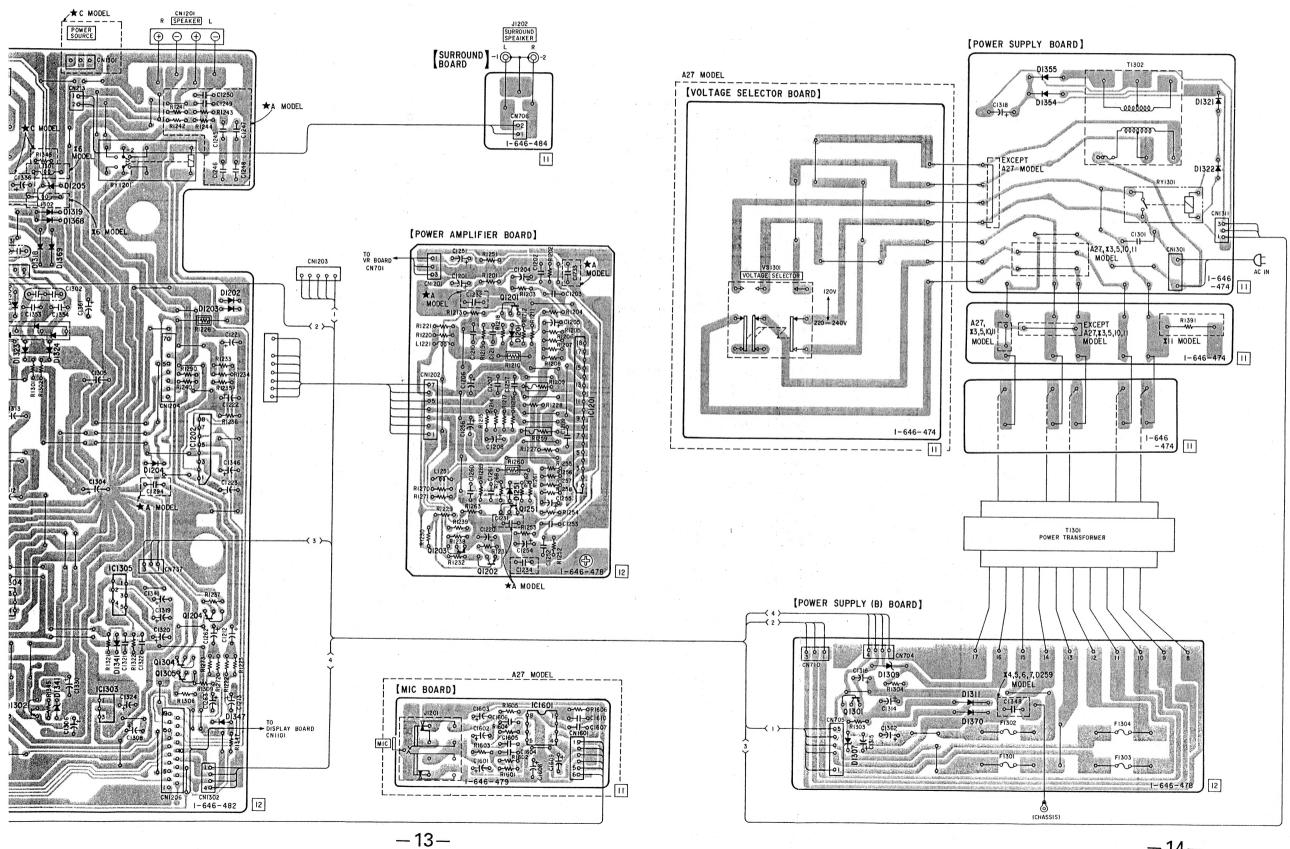
AU2: AUS (with in PHONO MODEL)
AE2: AEP (with in PHONO MODEL)

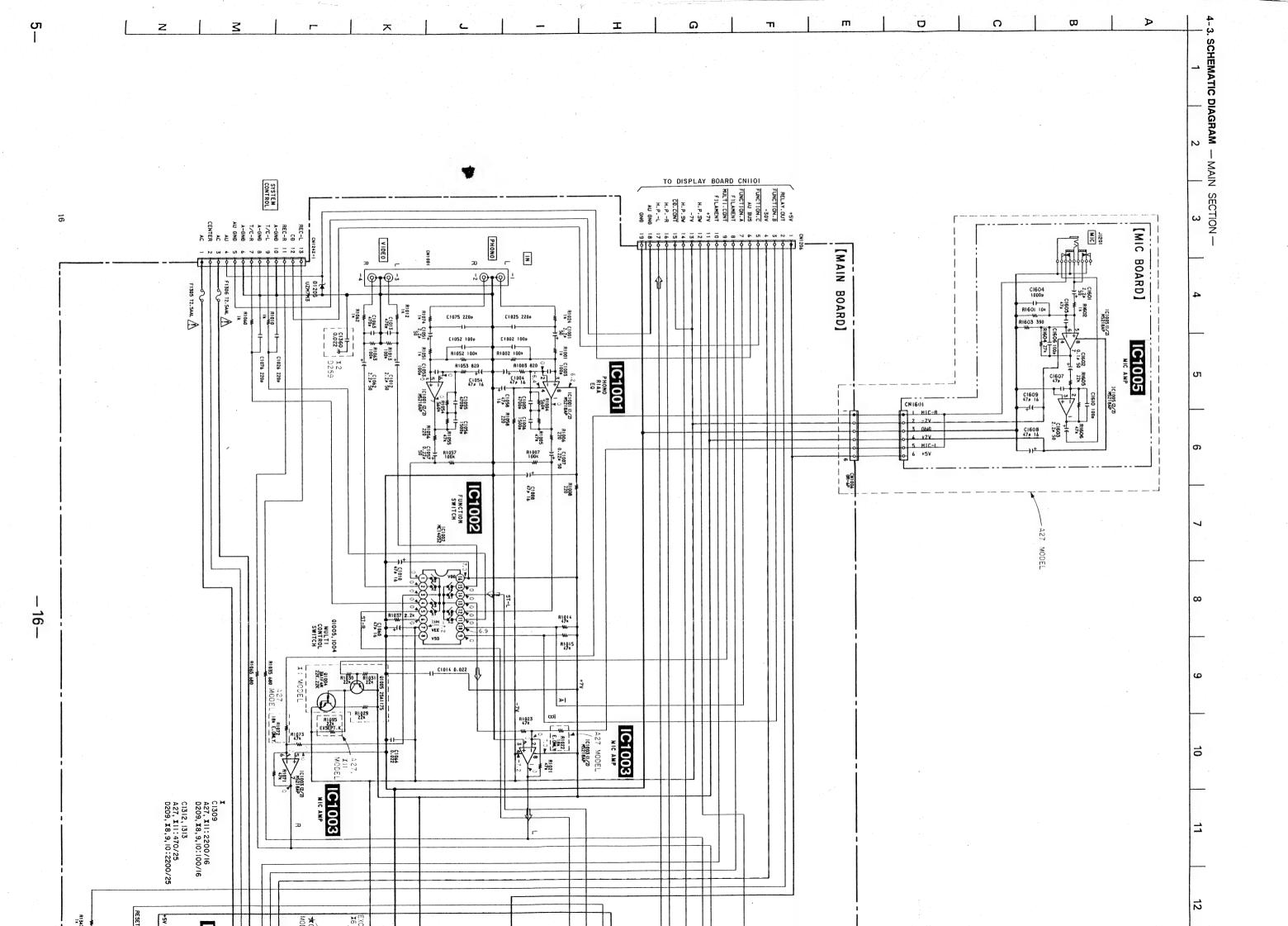
4-2. PRINTED WIRING BOARD - MAIN SECTION -



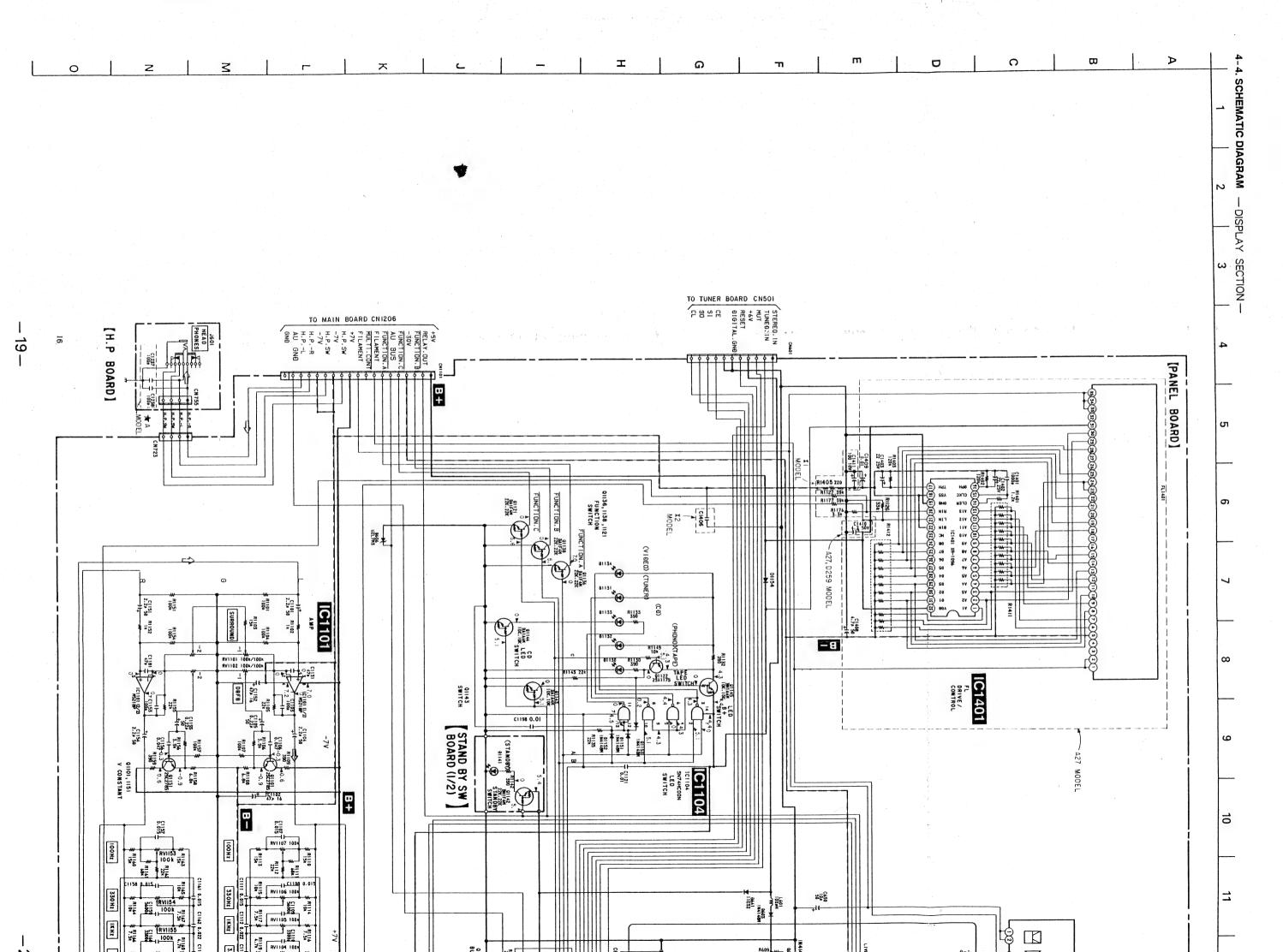
-11-







19 20



Note on Schematic Diagram:

- •All capacitors are in μF unless otherwise noted, pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- ullet All resistors are in Q and $\frac{1}{4}$ W or less unless otherwise specified.

 in a specified.

 in a specified.

 in a specified.

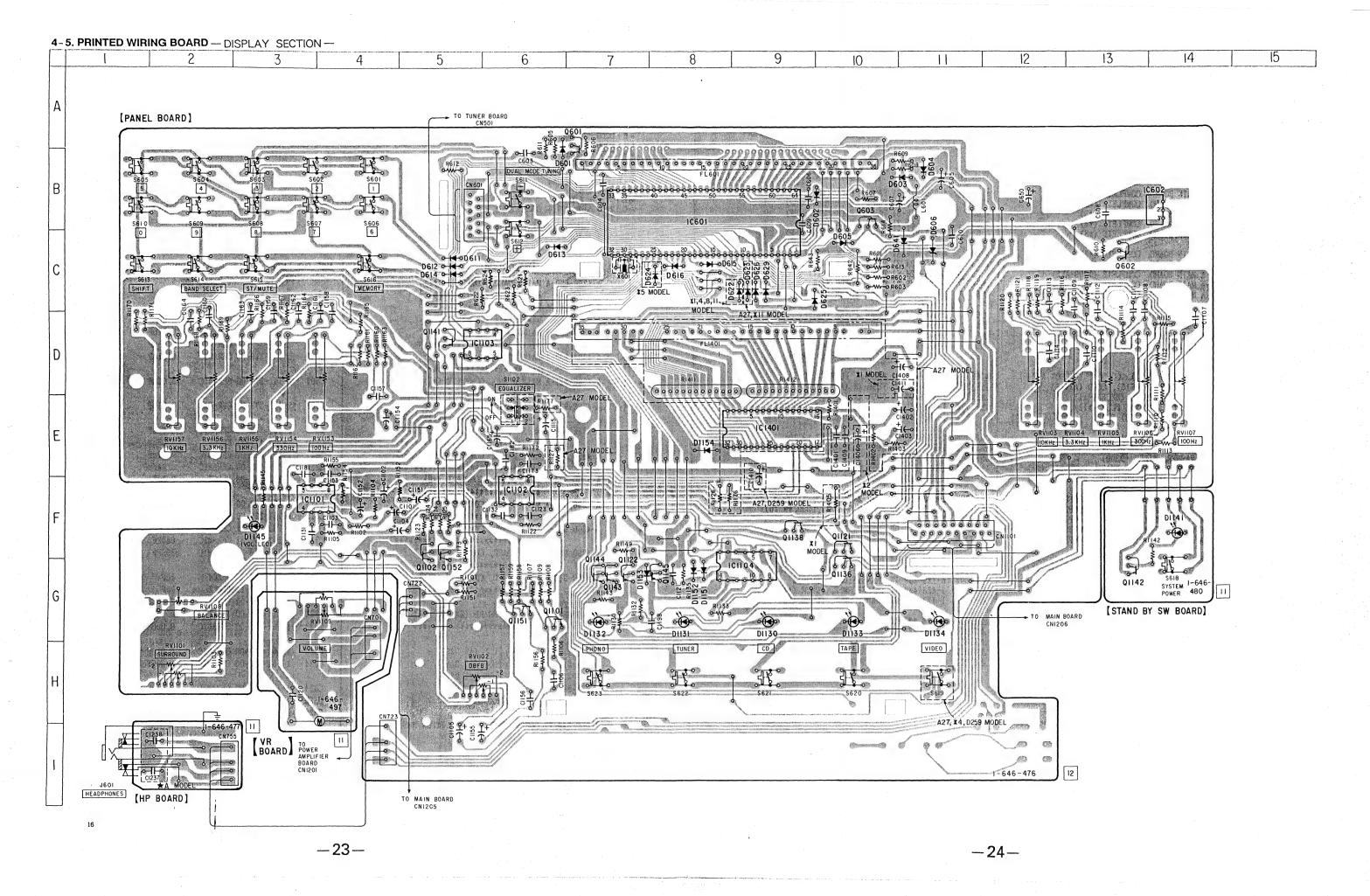
 in a specified.

Note: The components identified by matk ∆ or dotted line with mark ∆ are critical for safety. Replace only with part number sppecified.

Note: Les composants identifiés par une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifie.

- _____: adjustment for repair.
- ____ : B + Line. ___ : B Line.
- no mark : FM
- Voltages are taken with a VOM (input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
- ⇒ : FM
- ➡ : AM
- Model name and destination shown by *1 to *11.
- * 1 : A27 : Australian
- * 2 : A27 : E, AU2
- *3:D209:UK
- * 4 : D209 : Italian
- *5:D209:East European
- * 6 : D209 : German
- *7:D209:AEP, AE2
- *8: D259: Italian
- * 9 : D259 : AEP, AE2
- * 10 : D259 : UK
- * 11 : D259 : Canadian
- ★A: *4, 6, 8
- \star B: *3, 5, 7, 9, 10
- ★C: 209: AEP, *3, 6, D259: AEP, *10

AU2: AUS (with in PHONO MODEL) AE2: AEP (with in PHONO MODEL)



• Semiconductor Location

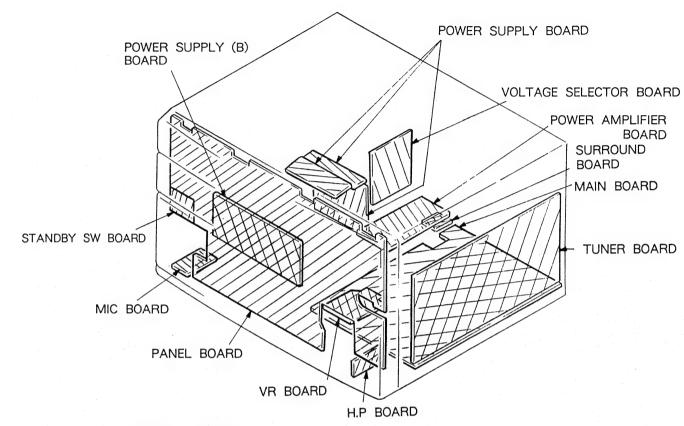
		·	·
Ref. No	. Location	Ref. No.	Location
D601 D602 D603	B-6 B-9 B-10	D1153 D1154	G-7 E-8
D603 D604 D605 D606 D611 D612 D613 D614 D615	B-10 B-11 C-10 B-11 C-5 C-5 C-6 C-5	1C601 1C602 1C1101 1C1102 1C1103 1C1104 1C1401	B-8 B-13 F-3 F-6 D-5 G-8 E-9
D616 D622 D623 D624 D625 D626 D629 D641 D1130 D1131 D1132 D1133 D1134 D1145 D1151 D1151	C-8 C-8 C-9 C-9 C-9 C-10 G-8 G-7 G-11 F-14 F-3 G-8	0601 0602 0603 01101 01102 01121 01122 01136 01141 01142 01143 01144 01145 01151	A-6 C-13 B-10 G-6 G-5 F-10 F-7 G-10 F-9 D-5 G-13 G-7 F-7 G-8 G-6 G-5

Note on Mounting Diagram:

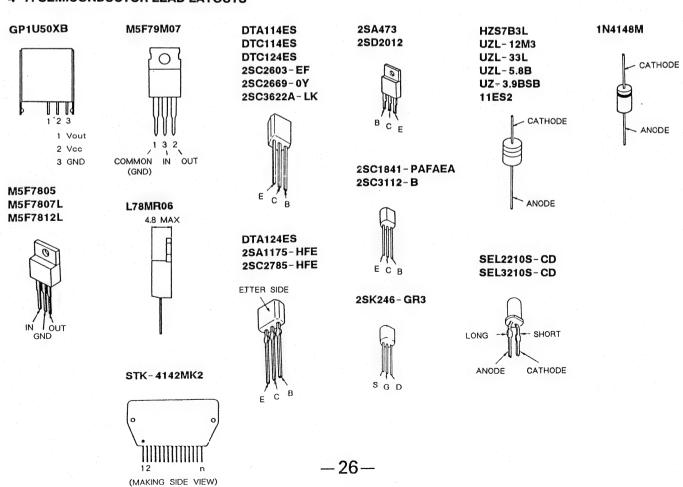
- o----: Parts extracted from the component side.
- Pattern on the side which is seen.
- Model name and destination shown by *1 to *11.
- * 1 : A27 : Australian
- * 2 : A27 : E, AU2
- * 3 : D209 : UK
- * 4 : D209 : Italian
- *5: D209: East European
- * 6 : D209 : German * 7 : D209 : AEP, AE2
- * 8 : D259 : Italian
- * 9 : D259 : AEP, AE2
- * 10 : D259 : UK
- * 11 : D259 : Canadian
- ★A: *4, 6, 8
- ★B: *3, 5, 7, 9, 10
- ★C: 209: AEP, *3, 6, D259: AEP, *10

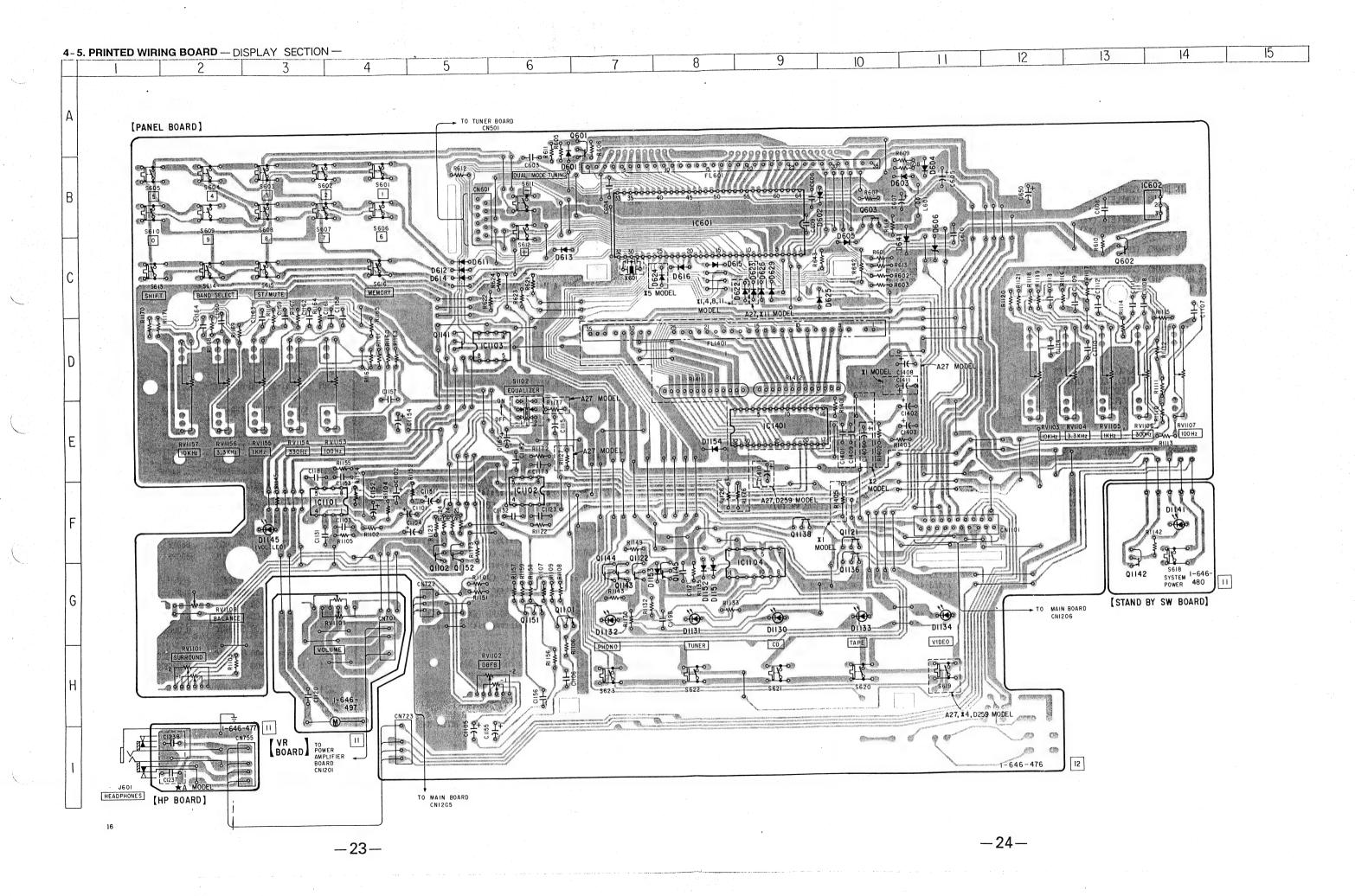
AU2: AUS (with in PHONO MODEL) AE2: AEP (with in PHONO MODEL)

4-6. CIRCUIT BOARDS LOCATION



4-7. SEMICONDUCTOR LEAD LAYOUTS





• Semiconductor Location

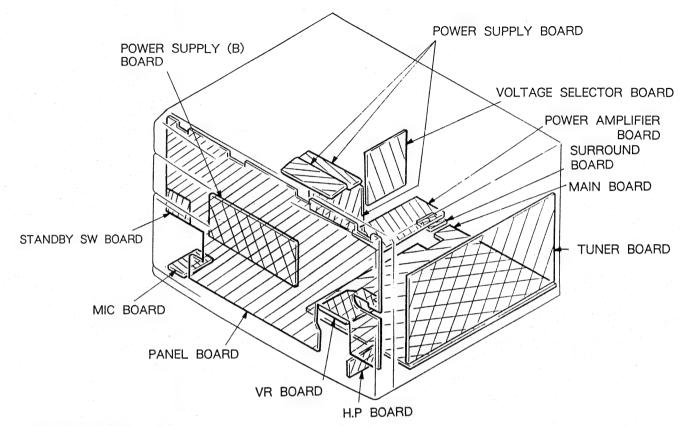
Ref. No.	Location	Ref. No.	Location
D601 D602	B-6 B-9 B-10	D1153 D1154	G-7 E-8
D603 D604 D605 D606 D611 D612 D613 D614 D615	B-10 B-11 C-10 B-11 C-5 C-5 C-6 C-5 C-8	1C601 1C602 1C1101 1C1102 1C1103 1C1104 1C1401	B-8 B-13 F-3 F-6 D-5 G-8 E-9
D615 D616 D622 D623 D624 D625 D626 D629 D641 D1130 D1131 D1132 D1133 D1134 D1141 D1145 D1151	C-8 C-8 C-9 C-9 C-9 C-10 G-9 G-7 G-11 F-14 F-3 G-8	0601 0602 0603 01101 01102 01121 01122 01136 01138 01141 01142 01143 01144 01151	A-6 C-13 B-10 G-6 G-5 F-7 G-10 F-9 D-5 G-13 G-7 F-7 G-8 G-6 G-5

Note on Mounting Diagram:

- o---: Parts extracted from the component side.
- Pattern on the side which is seen.
- Model name and destination shown by *1 to *11.
- * 1 : A27 : Australian
- * 2 : A27 : E, AU2
- * 3 : D209 : UK
- * 4 : D209 : Italian
- *5:D209:East European
- * 6 : D209 : German
- *7: D209: AEP, AE2
- *8: D259: Italian
- * 9 : D259 : AEP, AE2 * 10 : D259 : UK
- * 10 : D259 : OR * 11 : D259 : Canadian
- ★ A: * 4, 6, 8
- $\star B: *3, 5, 7, 9, 10$
- ★C: 209: AEP, *3, 6, D259: AEP, *10

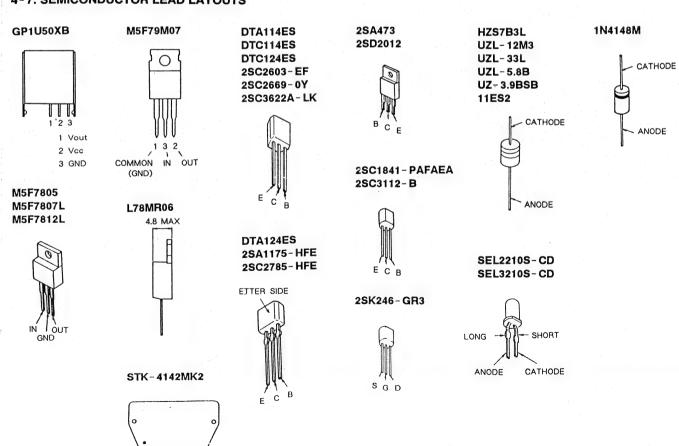
AU2: AUS (with in PHONO MODEL)
AE2: AEP (with in PHONO MODEL)

4-6. CIRCUIT BOARDS LOCATION



4-7. SEMICONDUCTOR LEAD LAYOUTS

(MAKING SIDE VIEW)



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SECTION 5 **EXPLODED VIEWS**

NOTE:

not supplied

A27 MODEL

Ref. No. Part No.

* 9

* 10

* 11

* 15

13

- - XX, X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts Example:

5-1. FRONT PANEL SECTION

KNOB, BALANCE (WHITE)...(RED)

Parts color Cabinet's color

FL1401-

Supplied with

Description

X-4943-180-1 PANEL ASSY, FRONT (*1) X-4943-182-1 PANEL ASSY, FRONT (D209) X-4943-242-2 PANEL ASSY, FRONT (*2)

X-4943-243-2 PANEL ASSY, FRONT (D259)

4-948-236-01 CUSHION (107) 4-955-744-01 KNOB (BA) (*1, D209) 4-955-744-21 KNOB (BA) (*2, D259)

4-955-635-01 KNOB (V) (*1, D209)

4-955-635-21 KNOB (V) (*2, D259)

4-955-636-01 KNOB (DB) (*1, D209)

4-955-636-22 KNOB (DB) (*2, D259)

X-4943-179-1 BUTTON (FU) ASSY

1-646-480-11 STAND-BY SW BOARD 4-949-935-31 CUSHION (FL) 4-942-301-01 HOLDER, FL TUBE

4-955-755-01 BUTTON (EQ) (*1, D209)

4-955-755-11 BUTTON (EQ) (*2, D259)

4-955-741-01 BUTTON (PR) (*1, D209)

4-955-741-21 BUTTON (PR) (*2, D259)

A-4356-640-A PANEL BOARD, COMPLETE (*1)

4-955-745-01 BUTTON (ST)

1-646-497-11 VR BOARD

1-646-479-11 MIC BOARD (A27)

variable resistor

A27 MODEL

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

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not supplied

Description

A-4356-736-A PANEL BOARD, COMPLETE (*2) A-4356-623-A PANEL BOARD, COMPLETE (*3) A-4356-930-A PANEL BOARD, COMPLETE (*4)

A-4360-822-A PANEL BOARD, COMPLETE (*5)

A-4356-924-A PANEL BOARD, COMPLETE (*6)

A-4356-608-A PANEL BOARD, COMPLETE (*7)

A-4360-541-A PANEL BOARD, COMPLETE (*8)

A-4360-531-A PANEL BOARD, COMPLETE (*9)

A-4360-520-A PANEL BOARD, COMPLETE (*10)
A-4360-509-A PANEL BOARD, COMPLETE (*11)
4-951-620-01 SCREW (2.6X8), +BYTP

1-590-578-11 WIRE, FLAT TYPE (19 CORE)

3-704-366-01 SCREW (CASE) (M3X8)

X-4941-228-1 FOOT ASSY (*1, D209)

FL1401 1-519-648-21 INDUCTOR TUBE, FLUORENSCENT (A27)

4-955-759-11 CASE (*1, D209) 4-955-759-51 CASE (*2, D259) 4-933-601-01 FOOT (*2, D259)

1-646-477-11 H. P BOARD

1-590-576-21 WIRE, FLAT TYPE (11 CORE) (D209)

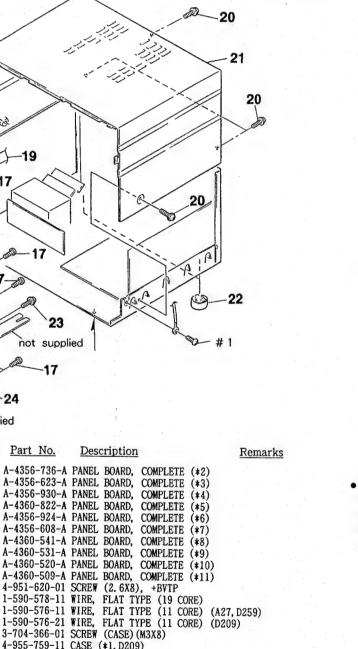
4-957-577-01 SCREW PTP WH (2.6X8) (DIA. 10) (*1, D209)

4-957-577-11 SCREW PTP WH (2.6X8) (DIA, 10) (*2.D259)

- Model name and destination * 10 : D259 : UK shown by *1 to *11. *1:A27:Australian* 11 : D259 : Canadian ★A: *4, 6, 8 ★B: *3, 5, 7, 9, 10 ★C: 209: AEP, *3, 6, * 2 : A27 : E, AU2 * 3 : D209 : UK * 4 : D209 : Italian D259: AEP, * 10 *5: D209: East European
- AU2: AUS (with in * 6 : D209 : German PHONO MODEL)
 AE2: AEP (with in * 7: D209: AEP, AE2 * 8 : D259 : Italian * 9 : D259 : AEP, AE2 PHONO MODEL)

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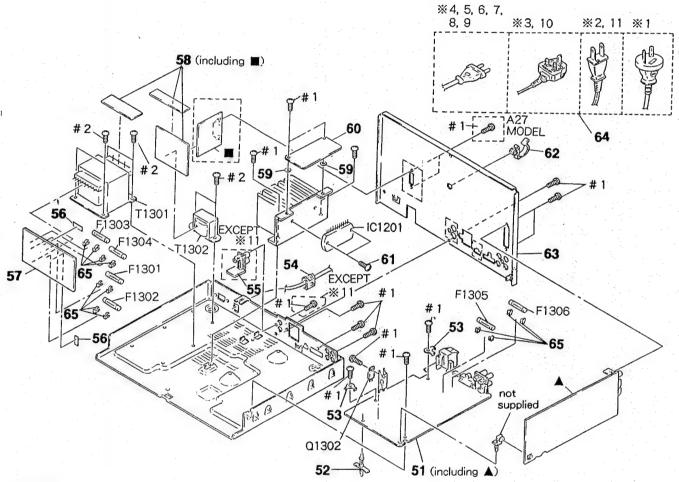
-22



5-2. BACK PANEL SECTION

▲: TUNER BOARD

■: VOLTAGE SELECTOR **BOARD**



• CAUTION

Be sure to use insulation sheet ($\triangle 4-959-364-01$) when replacing power transformer because it is safely related part.

-15

not supplied

* 16 * 16

* 16

* 16

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Ref. No. Part No.

not

supplied

Remarks

Ref. No.	Part No.	Description	Rema	arks Re	f. No.	Part No.	Description		Remarks
* 51 * 51	A-4356-650-A	MAIN BOARD, COMPLETE MAIN BOARD, COMPLETE	(*1) (*2)	* 6 * 6			PANEL, BACK PANEL, BACK		
* 51 * 51	A-4356-630-A	MAIN BOARD, COMPLETE	(*3)	* 6	3 4	-955-778-81	PANEL, BACK	(D209:AE2)	
* 51 * 51	A-4356-933-A A-4360-821-A	MAIN BOARD, COMPLETE ((*4) (*5)	* 6 * 6			PANEL, BACK PANEL, BACK		
* 51		MAIN BOARD, COMPLETE		* 6			PANEL, BACK		
* 51	A-4356-618-A	MAIN BOARD, COMPLETE	(D209: AEP)	* 6	3 4	-955-824-21	PANEL, BACK	(*10)	
* 51 * 51		MAIN BOARD, COMPLETE MAIN BOARD, COMPLETE		★ 6	3 4 34 1	-955-824-51 -696-848-21	PANEL, BACK CORD, POWER	(*11) (*1)	
* 51	A-4360-534-A	MAIN BOARD, COMPLETE	(D259:AEP)				CORD, POWER		
* 51		MAIN BOARD, COMPLETE		1 1 1 1 1 1 1 1			CORD, POWER		
* 51 * 51		MAIN BOARD, COMPLETE (∆ 6			CORD, POWER	(*3, 10) (*4, , 5, 6, 7, 8, 9)	
* 52 * 53	4-954-051-51	HOLDER, PC BOARD PLATE, GROUND		1 1 1 1 1 1 1	64 1	-690-609-21	CORD, POWER HOLDER, FUSE	(*11)	
			(DV0D0F 10F						
* 54 * 54	3-703-244-00 3-703-571-11	BUSHING (2104), CORD BUSHING (S) (4516), CORD	(EXCEUT A27: RD (A27:E)	:E)			HOLDER, FUSE FUSE 4A (A27		
* 55 * 56	1-646-484-11	SURROUND BOARD (EXCEPT LABEL (4A125V), FUSE (Γ *11)	ΔF	1301 1	-576-108-11	FUSE 4A (*8, FUSE 4A (A27,	11)	
* 57		POWER SUPPLY (B) BOARD					FUSE 4A (*8,		
* 58	1-646-474-11	POWER SUPPLY BOARD				-532-203-00		209, *9, 10)	
59 59	3-330-034-01	WASHER (*2, D259) WASHER, FIBER (D209)				-532-286-00 -576-104-11		27, D209, *9, 10)	
* 60	A-4356-649-A	POWER AMPLIFIER BOARD,	COMPLETE (*1)) <u> </u>	1304 1	-532-203-00	FUSE 2A (D.	209, *9, 10)	
* 60		POWER AMPLIFIER BOARD,			1304 1	-532-286-00	FUSE Z. 5A (A	27, D209, *9, 10)	
* 60 * 60	A-4356-628-A	POWER AMPLIFIER BOARD, POWER AMPLIFIER BOARD,	COMPLETE (*3)	ΔF			FUSE 2A (*	8) 27, D209, *9, 10)	
* 60	A-4356-616-A	POWER AMPLIFIER BOARD,	COMPLETE (*5,	7) AF	1305 1	-576-105-11	FUSE 2.5A (*	8, 11)	
* 60 * 60		POWER AMPLIFIER BOARD, POWER AMPLIFIER BOARD,					FUSE 2. 5A (A) FUSE 2. 5A (*)	27, D209, *9, 10) 8, 11)	
* 60	A-4360-527-A	POWER AMPLIFIER BOARD.	COMPLETE (*10	0) 1	C1201 8	-749-900-24	IC STK-4162M	(2 (A27, *11)	
* 60	A-4360-516-A	POWER AMPLIFIER BOARD,	COMPLETE (*11	1) 1	C1201 8		IC STK-4162M	K2 (D209, *8, 9, 10)	1
61 * 62	4-949-235-01	SCREW, +BV (2.6X16) TA HOOK (*2, 4, 5, 6, 7, 9, 11)		ΔT	1301 1	-423-438-11	TRANSFORMER,		
* 63	4-955-781-11	PANEL, BACK (*1)		ΔT	1301 1	-423-438-21	TRANSFORMER,	POWER (*2)	
* 63		PANEL, BACK (A27:E)						POWER (D209)	
* 63 * 63		PANEL, BACK (A27:AU2) PANEL, BACK (*3)		TΔ	1301 1	-423-431-11	TRANSFORMER,		
* 63 * 63		PANEL, BACK (*4) PANEL, BACK (*5)					TRANSFORMER, TRANSFORMER,	POWER (EXCEPT *1)	1)
+ 00	7 000 110 41	I milly bhon (+0)		431	1000 1	100 100 11	inner onmen,	TOHER (TII)	

Note:	Note:
The components identi-	Les composants identifiés par
fied by mark A or dot-	une marque A sont critiques
ted line with mark A	pour la sécurité.
are critical for safety.	Ne les remplacer que par une
Replace only with part	pièce portant le numéro spéci-
number specified.	fié.

SURROUND MAIN

SECTION 6 ELECTRICAL PARTS LIST

Model name and destination shown	NOTE:
y * 1 to * 11. : A27 : Australian :: A27 : E, AU2 3: D209 : UK : D209 : Italian :: D209 : East European :: D209 : German :: D209 : AEP, AE2 !: D259 : Italian	 Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set. -XX, -X mean standardized parts, so they may have some difference from the original one.
O DOCO TIV	 RESISTORS

*9: D259: AEP, AE2 *10: D259: UK *11: D259: Canadian *A: *4, 6, 8 *B: *3, 5, 7, 9, 10 *C: 209: AEP, *3, 6, D259: AEP, *10 METAL: metal-film resistor METAL OXIDE: Metal Oxide-film resistor

All resistors are in ohms.

F: nonflammable AU2: AUS (with in PHONO MODEL) AE2: AEP (with in PHONO MODEL)

• Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated

when ordering these items.

• SEMICONDUCTORS In each case, $u: \mu$, for example: $uA...: \mu A...$, uPA..., $\mu PA...$, uPB..., μPB..., uPC..., μPC..., uPD..., μPD...

• CAPACITORS: $uF: \mu F$

• COILS $uH: \mu H$

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	<u>1</u>		$\underline{\mathbf{R}}$	emarks
*	A-4356-650-A	MAIN BOARD, COMPLETE (*1)				< CAPACITOR	>			

*	A-4356-742-A	MAIN BOARD, COMPLETE (*2)	1	C301	1-161-379-00	CERAMIC	0. 01uF	20%	25V	(★:A)
		*******		C302	1-124-477-11	ELECT		20%		
*	A-4356-630-A	MAIN BOARD, COMPLETE (*3)		C303	1-161-379-00	CERAMIC			25V	
		*******		C305	1-161-379-00	CERAMIC	0. 01uF	20%	25V	(★:A)
*	A-4356-933-A	MAIN BOARD, COMPLETE (*4)	ļ	C306	1-161-379-00	CERAMIC	0.01uF	20%	25V	(★: A)

*	A-4360-821-A	MAIN BOARD, COMPLETE (*5)		C307	1-161-379-00	CERAMIC	0.01uF	20%	25V	
		******							(EXCI	EPT *1)
*	A-4356-926-A	MAIN BOARD, COMPLETE (*6)		C308	1-161-379-00	CERAMIC	0. 01uF	20%	25V	
		********							(EXCI	EPT +1)
*	A-4356-618-A	MAIN BOARD, COMPLETE (D209: AEF)	C309	1-161-379-00	CERAMIC	0.01uF	20%	25V	
		*****************		C310	1-124-477-11	ELECT	47uF	20%	25V	
*	A-4356-928-A	MAIN BOARD, COMPLETE (D209: AE2	3)	C311	1-161-379-00	CERAMIC	0. 01uF	20%	25V	
		**********	*	C312	1-101-006-00	CERAMIC	0. 047uF		50V	
*	A-4360-543-A	MAIN BOARD, COMPLETE (*8)		C313	1-123-382-00	ELECT	3. 3uF	20%	100	7

*	A-4360-534-A	MAIN BOARD, COMPLETE (D259: AEF	·)	C314	1-161-379-00	CERAMIC	0.01uF	20%	25V	
		*********************		C315	1-161-329-00	CERAMIC	0.0068uF	30%	16V	
*	A-4360-538-A	MAIN BOARD, COMPLETE (D259: AE2	()	C316	1-162-282-31	CERAMIC	100PF	10%	50V	
		*********		C317	1-162-292-31	CERAMIC	680PF	10%	50V	(*4, 6)
*	A-4360-523-A	MAIN BOARD, COMPLETE (*10)	 	C317	1-162-289-31	CERAMIC	390PF	10%	50V	(*8)

*	A-4360-511-A	MAIN BOARD, COMPLETE (*11)		C318	1-124-903-11	ELECT	luF	20%	50V	
		*******		C320	1-124-903-11	ELECT	1uF	20%	50V	
				C321	1-124-902-00	ELECT	0. 47uF	20%	50V	
*	1-646-484-11	SURROUND BOARD (EXCEPT \$11)		C322	1-124-463-00	ELECT	0. 1uF	20%	50V	
		*******		C323	1-161-329-00	CERAMIC	0.0068uF	20%	16V	
								(EXCE	PT *11)
*	1-533-213-11	HOLDER, FUSE (*2, D259)		C323	1-161-379-00	CERAMIC	0.01uF			(*11)
*		HOLDER, FUSE (*2, D259)			1-161-329-00				16V	
		HOLDER, FUSE (*1, D209)	}							PT *11)
*		FUSE HOLDER (*2, D259)		C324	1-161-379-00	CERAMIC	0. 01uF			(*11)
*		PLATE, GROUND	Į		1-124-477-11				25V	
	2 0 . 2 20 . 0 .		1		1-124-907-11				50V	
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	(*6)		1-161-379-00				25V	
	. 300 010 10		,	C328	1-124-463-00				50V	
			į	0020				_0,4	001	

Note:
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque A sont critiques pour la sécurité.
Ne les remplacer que par une

pièce portant le numéro spéci-fié.

When indicating parts by reference number, please include the board name.

Ref. No.	Part No.	Description	<u>n</u>		Remarks	Ref. No.	Part No.	Description	<u>on</u>		Remarks
C329	1-124-927-11	ELECT	4. 7uF	20%	100V	C1013	1-162-290-31	CERAMIC	470PF	10%	50V
	1-161-379-00	CERAMIC	0.01uF	20%	1						
C331	1-126-176-11		220uF	20%	1	C1014	1-161-494-00	CERAMIC	0. 022uF		25V
C332	1-161-379-00		0.01uF	20%			1-162-286-31		220PF	10%	
C335	1-161-379-00		0.01uF	20%	25V	C1026	1-162-286-31	CERAMIC	220PF	10%	
							1-124-925-11		2. 2uF		100V
C336	1-161-379-00	CERAMIC	0.01uF	20%	25V		1-162-282-31		100PF	10%	
	1-162-210-31		30PF		50V (★:B)						
C341	1-123-382-00		3. 3uF		100V	C1053	1-162-282-31	CERAMIC	100PF	10%	50V
C342	1-123-382-00		3. 3uF		100V		1-124-477-11		47uF	20%	
	1-123-382-00		3. 3uF		100V		1-161-377-00		0. 0047uF	20%	
0010	,1 100 000 00	22201	or our	2070	1001		1-161-374-11		0. 0015uF	20%	
C344	1-123-382-00	ELECT	3. 3uF	20%	100V		1-124-464-11		0. 22uF	20%	
C345	1-161-375-00		0. 0022uF	20%	50V	01001	1 101 101 11	SEECI	0. <i>DB</i> ui	2070	501
C346	1-161-375-00		0. 0022uF	20%	1	C1058	1-124-477-11	FIFCT	47uF	20%	25 V
C351	1-161-494-00		0. 022uF	40%	25V (★:B)		1-124-477-11		47uF	20%	
C352	1-102-120-00		0. 0018uF	10%	50V (★:B)		1-124-925-11		2. 2uF		100V
0004	1 102 120 00	CLITAMIC	0.001001	10%	301 (A.D)		1-162-290-31		470PF	10%	
C353	1-161-374-11	CEDANIC	0. 0015uF	209/	EON (4.D)		1-161-494-00		0. 022uF	10/9	
	1-161-494-00		0. 0015ur 0. 022uF	40%	50V (★:B)	C1004	1-101-494-00	CERAMIC	0. 022ur		25V
	1-161-494-00				25V (★:B)	C1075	1 160 006 01	CEDANIC	adope	100	COV
C361			0. 047uF	200	12V		1-162-286-31		220PF	10%	
C361 C362	1-161-379-00		0. 01uF	20%	257 (*4, 6)		1-162-286-31		220PF	10%	
C362	1-161-494-00	CERAMIC	0. 022uF		25V		1-124-916-11		22uF	20%	
0000	1 101 150 11	CDD LUI C	0.1.0		507 (1 7)		1-124-916-11		22uF	20%	
C363	1-164-159-11		0. luF		50V (★:B)	CIZZI	1-126-101-11	ELECT	100uF	20%	16V
C364	1-161-494-00		0. 022uF	1.00/	25V (★:B)	21.000					
C371	1-162-198-31	CERAMIC	8. 2PF	10%			1-126-176-11		220uF	20%	
					EXCEPT ★:B)		1-126-176-11		220uF	20%	
C371	1-162-196-31		5. 6PF		50V (★:B)		1-101-006-00		0. 047uF		50V (★:A)
	1-162-288-31		330PF		50V (*7, *8)		1-101-006-00		0.047uF		50V (★:A)
C501	1-102-961-00		27PF	5%	50V	C1247	1-101-006-00	CERAMIC	0.047uF		50V (★:A)
C502	1-102-961-00		27PF	5%	50V						
C503	1-124-477-11	ELECT	47uF	20%	25V		1-101-006-00		0. 047uF		50V (★:A)
							1-161-494-00		0. 022uF		25V (★:A)
C504	1-161-379-00		0.01uF	20%			1-161-494-00		0. 022uF		25V (★:A)
C505	1-161-379-00		0.01uF	20%			1-124-916-11		22uF	20%	63V
C506	1-161-379-00		0.01uF	20%		C1263	1-124-916-11	ELECT	22uF	20%	63V
C507	1-161-379-00	CERAMIC	0.01uF	20%	25V						
C521	1-124-925-11	ELECT	2. 2uF	20%	100V		1-161-494-00		0. 022uF		25V (★:A)
						C1302	1-102-394-11	CERAMIC	0.01uF		250V
C522	1-124-463-00	ELECT	0. luF	20%		C1304	1-126-224-11	ELECT	4700uF	20%	42V
C523	1-161-379-00	CERAMIC	0. 01uF	20%	25V	C1305	1-126-224-11	ELECT	4700uF	20%	42V
C524	1-161-379-00	CERAMIC	0.01uF	20%	25V	C1306	1-124-477-11	ELECT	47uF	20%	25V
C525	1-124-477-11	ELECT	47uF	20%	25V						
		•			(EXCEPT *5)	C1307	1-124-893-11	ELECT	2200uF	20%	10 V
C525	1-126-101-11	ELECT	100uF	20%	16V (*5)	C1308	1-126-101-11	ELECT	100uF	20%	16V
C531	1-136-173-00	FILM	0. 47uF	5%	50V (★:B)	C1309	1-124-556-11	ELECT	2200uF	20%	16V
C532	1-161-494-00	CERAMIC	0. 022uF		25V (★:B)				•		(A27, *11)
C533	1-124-463-00	ELECT	0. luF	20%	50V (★:B)	C1309	1-126-101-11	ELECT	100uF	20%	
C1001	1-124-925-11	ELECT	2. 2uF	20%	100V						9, *8, 9, 10)
						C1312	1-124-564-11	ELECT	4700uF	20%	
C1002	1-162-282-31	CERAMIC	100PF	10%	50V						(A27, *11)
C1003	1-162-282-31	CERAMIC	100PF	10%	50V	C1312	1-124-563-11	ELECT	2200uF	20%	
	1-124-477-11		47uF	20%							9, *8, 9, 10)
	1-161-377-00		0.0047uF	20%		C1313	1-124-564-11	ELECT	4700uF	20%	
	1-161-374-11		0. 0015uF	20%		0.010		22201	110001	2070	(A27, *11)
34000				_ 0,0		C1313	1-124-563-11	ELECT	2200uF	20%	
C1007	1-124-464-11	ELECT	0. 22uF	20%	50Y	22310			20000		9, *8, 9, 10)
	1-124-477-11		47uF	20%		C1319	1-124-463-00	ELECT	0. 1uF	20%	
	1-124-477-11		47uF	20%			1-124-907-11		10uF		50V
	1-124-925-11		2. 2uF		100V		1-161-379-00			20%	
				_ 0.0		01001	_ 101 010 00	Carrositi V	J. VIUL	400	201

F	Ref. No.	Part No.	Description			Rer	marks	Ref. N	٧o.	Part No.	Desc	ription]	Remarks
-		1-161-379-00		-	20%					8-719-200-82		11ES2			,
		1-124-907-11			20%					8-719-200-82		11ES2			
	01024	1 124 301 11	DDDOI		2010					8-719-200-82		11ES2			
	C1326	1-124-907-11	ELECT	10uF	20%	50 V									
	C1328	1-124-907-11	ELECT		20%					8-719-200-82		11ES2			
		1-126-101-11			20%					8-719-200-82		11ES2			
		1-102-394-11		0. 01uF		250V				8-719-200-82		11ES2			
	C1335	1-124-907-11	ELECT	10uF	20%	507 ((★:C)			8-719-200-82 8-719-987-63		11ES2 1N4148M			
	C122C	1-126-101-11	DI DOT	100uF	208	16V ((★:C)	מנוע	1	0-119-901-03	DIODE	111414019			
	-	1-124-907-11		10uF	20%		A .0)	D132	23	8-719-987-63	DIODE	1N4148M			
		1-124-925-11			20%					8-719-987-63		1N4148M			
		1-124-122-11			20%			D134	11	8-719-001-76	DIODE	UZL-12M3			
		1-126-105-11		1000uF	20%	35V		D134	17	8-719-987-63	DIODE	1N4148M			
								D136	86	8-719-200-82	DIODE	11ES2			
		1-136-165-00		0. 1uF		50V		210			D. T. A.D. D.	11700			
		1-136-165-00		0. 1uF	5%	50V		D136	59	8-719-200-82	DIODE	11ES2			
	C1360	1-161-494-00	CERAMIC	0. 022uF		25V	2, D259)				< FROM	ITEND >			
	C1261	1-124-122-11	FI FCT	100uF	20%		2, 0239)				· Phor	TEND >			
	C1301	1-124-122-11	LLLCI	10001	2070	001		FE30	01	1-465-006-11	FRONT	END (FM) (2 GANG)	(*2, 3)	
			< FILTER >					FE30)1	1-693-090-21	FRONT	END (FM) (2 GANG)	(*1, 7, 9,	10, 11)
								FE30	01	1-463-857-21	FRONT	END		(★:A)	
		1-577-070-81			★:A))				1-465-396-11					
		1-567-389-11						FE3	51	1-236-463-11	ENCAPS	SULATED COM	PONENT	(★:B)	
		1-577-070-81			★:A))		PPOI	- 0	1 220 200 11	ENCADO	TH ATEN COM	DOMENT	(EVCEDT	±.p)
		1-567-389-11								1-239-260-11 1-239-261-12					X :D)
	CF 304	1-577-075-11	USCILLATOR,	CERAMIC				T.DO	34	1-233-201-12	DION!	DOLATED COM	ONLANI	(A . D)	
			< CONNECTOR	>.							< IC :	>			
	+ CM212	1-564-506-11	DI HC COMME	CTOD 3D				103	11	8-759-821-45	IC I	A1851N			
		1-695-089-11			D) 11	Р				8-759-820-91		.C7218			
		1-568-830-11			,					8-759-634-51		M5218AP			
		1-580-912-21			259)			IC1	002	8-759-000-48	IC 1	AC14052BCP			
	* CN1001	1-580-912-11	JACK, PIN 4	P (IN) (*1, D	209)			IC1	003	8-759-634-51	IC !	M5218AP			
		1-568-955-11			\ (DV)	000m	0)			8-759-111-68		PC1237HA			
		1-537-494-11					*4, 8)			8-759-231-53 8-759-071-48		M5F7805 M5F7807L			
		1-537-481-11 1-564-508-11) (+4	, 0)				8-759-604-95		M5F79M07			
		1-506-468-11								8-759-820-13					
	0.1200														
	CN1206	1-568-802-11	SOCKET, CON	NECTOR 19P				ICI	306	8-759-231-58	IC	M5F7812L (7	★: C)		
		1-565-291-11			SYSTE	M CON	TROL)								
		1-695-094-11				>					< JAC	< >			
		1-506-469-11					.	+ 112	02	1-569-130-11	TACK	DIM 2D (SI	IDDOLIND	CDEAKED)	
	* CN1301	1-566-210-11	PIN, CUNNEC	IOR 3P (PUME	K 500	KCE) (X :0)	* J14	04	1-509-150-11	JACA,	rin 2r (30	MNOOND		EPT *11)
	CN1302	1-506-469-11	PIN. CONNEC	TOR 4P										(Dito	211 (11)
	02002										< IFT	>			
			< DIODE >												
								IFT	301	1-404-713-11	TRANS	FORMER, IF			
		8-719-987-63		148M (★:B)							,				
		8-719-987-63		148M							< COI	L >			
		8-719-987-63		148M				120	1	1-410-686-11	INDIC	TOR	1mH	(A27, *11)	
		8-719-987-63 8-719-933-48		148M 7B3L				L30		1-410-660-11				(D209, *8,	
	D1703	0 110 000 40	21000 1100	. 504				L35		1-410-525-11			220uH		-,,
	D1302	8-719-312-09	DIODE RBA	-402						1-408-117-00			10uH		
		8-719-200-82								1-408-117-00			10uH	(*6)	

Ref. No.	Part No.	Description		Remarks	Ref. No.	Part No.	Description	<u>on</u>			Remarks
		< FILTER >			R307	1-249-414-11	CARBON	560	5%	1/4\	F (★:A)
					R308	1-249-411-11		330		1/4W	- (///
100201	1-235-164-00	שהו מפדוום	2249		R309	1-249-432-11		18K		1/4\	(EXCEPT *1)
_	1-235-164-00	•			R310	1-249-411-11		330		1/4₩	(LACLII +1)
LFF302	1-235-104-00	rilien, Lun	rnss								(EVCEDT +1)
		/ TO ANOTOTOD			R311	1-249-434-11	CARDON	27K	∂ 76	1/4₩	(EXCEPT *1)
		< TRANSISTOR	. >		D011	1 047 001 00	CADDON	2201	EN	1 / 470	(4.1)
		mn + 110 + 0m0 5		(1 1)	R311	1-247-891-00		330K		1/4W	
Q301	8-729-230-99		2SC2669-0Y		R312	1-249-414-11	CARBON	560	5%	1/4W	
Q302	8-729-230-99		2SC2669-0Y								, 3, 5, 7, 9, 11)
Q303	8-729-230-99			(EXCEPT *1)	R312	1-249-416-11		820			F (★:A)
Q304	8-729-230-99	TRANSISTOR	2SC2669-0Y		R313	1-249-405-11	CARBON	100	5%	1/4W	F
Q305	8-729-900-80	TRANSISTOR .	DTC114ES		R314	1-249-437-11	CARBON	47K	5%	1/4\	(★:A)
					R315	1-249-404-00	CARBON	82	5%	1/4₩	
Q306	8-729-900-61	TRANSISTOR	DTA114ES		R315	1-249-435-11	CARBON	33K	5%	1/4	(★:A)
Q307	8-729-900-80		DTC114ES								
Q308	8-729-620-05		2SC2603-EF	(*2 D259)	R316	1-249-429-11	CARRON	10K	5%	1/4W	
	8-729-119-78		2SC2785-HFE		R317	1-249-417-11		1K		1/4W	r .
Q308											Г
Q309	8-729-620-05	TRANSISIUR	2SC2603-EF	(*2, D259)	R318	1-249-435-11		33K		1/4W	_
					R319	1-249-428-11				1/4W	F
Q309	8-729-119-78		2SC2785-HFF		R320	1-249-432-11	CARBON	18K	5%	1/4\	
Q351	8-729-900-80	TRANSISTOR	DTC114ES	(★:B)							
Q352	8-729-119-78	TRANSISTOR	2SC2785-HFE	(*3, 5, 7)	R321	1-249-423-11	CARBON	3. 3K	5%	1/4₩	F ·
Q352	8-729-620-05	TRANSISTOR	2SC2603-EF	(*9, 10)	R322	1-249-429-11	CARBON	10K	5%	1/4W	
Q353	8-729-119-76		2SA1175-HFE		R323	1-249-418-11	CARBON	1. 2K		1/4W	F
4000	0 100 100 10	211111010101		. (,, , , ,							XCEPT ★:A)
Q354	8-729-900-80	TO ANGISTOD	DTC114ES	(★:B)	R323	1-249-423-11	CARRON	3 3K	5%		F (*4, 6)
-					R323	1-249-417-11					F (*8)
Q355	8-729-900-80		DTC114ES	(★:B)	1			1K			r (+6)
Q356	8-729-900-80		DTC114ES	(★:B)	R324	1-249-429-11		10K		1/4W	
Q501	8-729-900-80		DTC114ES	•	R325	1-249-429-11		10K		1/4W	
Q502	8-729-900-61	TRANSISTOR	DTA114ES		R326	1-249-409-11	CARBON	220	5%	1/4W	F
Q521	8-729-202-67	TRANSISTOR	2SK246-GR3		R327	1-249-437-11	CARBON	47K	5%	1/4W	
Q522	8-729-201-84	TRANSISTOR	2SC3112-B	(A27, *11)	R328	1-249-437-11	CARBON	47K	5%	1/4W	
Q522	8-729-141-26	TRANSISTOR	2SC3622A-LH	(D209, *8, 9, 10)	R331	1-247-899-11	CARBON	680K	5%	1/4W	
Q531	8-729-202-67	TRANSISTOR	2SK246-GR3		R332	1-247-899-11	CARBON	680K	5%	1/4W	
Q532	8-729-141-26		2SC3622A-LH		R333	1-249-421-11				1/4W	F
4002	0 ,00 011 00			. ()()	1.000	,,,				-,	
01004	8-729-900-36	TRANSISTOR	DTC124ES	(*1)	R334	1-249-421-11	CARBON	2, 2K	5%	1/4W	F
•	8-729-119-76		2SA1175-HFF		R335	1-249-420-11				1/4\	
	8-729-900-63		DTA124ES	(11)	R336	1-249-420-11				1/4W	
			2SD2012			1-249-426-11				1/4W	r
	8-729-209-15			(10 DOEO)	R337						
Q1304	8-729-620-05	TRANSISTOR	2SC2603-EF	(*Z, DZ59)	R338	1-249-426-11	CARBON	5.6K	5%	1/4₩	
01004	0 700 110 70	MD 11101 CMCP	0000000	(11 0000)	DOE:	1 040 400	CIDDON	0.017	F0/	3 / 1700	(1 5)
	8-729-119-78		2SC2785-HFE		R351	1-249-433-11		22K		1/4W	(★:B)
Q1305	8-729-620-05	TRANSISTOR	2SC2603-EF	(*2, D259)	R352	1-249-437-11	CARBON	47K		1/4\	(★:B)
Q1305	8-729-119-78	TRANSISTOR	2SC2785-HFF	(*1, D209)	R353	1-247-903-00	CARBON	1M	5%	1/4W	(★:B)
					R354	1-249-441-11	CARBON	100K	5%	1/4₩	(★:B)
		< RESISTOR >			R355	1-249-433-11	CARBON	22K	5%	1/4₩	- (★:B)
R301	1-249-401-11	CARBON	47 5% 1/	4W F	R356	1-249-421-11	CARBON	2. 2K	5%	1/4W	F (★:B)
R302	1-249-409-11			4W F (*1)	R361	1-249-437-11		47K		1/4	
R302	1-249-413-11			4W F (*2, 3, 5)	R362	1-249-437-11		47K		1/4₩	
R302	1-249-407-11		150 5% 1/		R363	1-249-425-11					F (★:B)
11302	1 440 401-11	CARDON	100 3/0 1/		R364						
מממ	1-240 405 13	CADDON	100 50 1	(*7, 9, 10, 11)	1304	1-249-425-11	CAMBON	4. IN	3/0	1/4#	F (★:B)
R302	1-249-405-11			4₩ F (★:A)	2005	1 040 400 15	CLDDON	1011	- F0:	1 / Jm	
R303	1-249-411-11		330 5% 1/		R365	1-249-429-11	CARBON	10K	5%	1/4W	
R304	1-249-432-11		18K 5% 1/								209, *8, 9, 10)
R305	1-249-411-11		330 5% 1/		R366	1-249-413-11		470			F (★:B)
R306	1-249-434-11	CARBON	27K 5% 1/	'4₩ (★:A)	R367	1-249-434-11	CARBON	27K	5%	1/4\	(★:B)
					R368	1-249-433-11	CARBON	22K	5%	1/4W	(★:B)
					R370	1-249-423-11	CARBON				F (★:A)
					•						

Ref. No.	Part No.	Description	ī				Remarks	Ref. No.	Part No.	Description	1				Remarks
R501	1-249-417-11	CARBON	1K	5%	1/4W	Ė		R1023	1-249-437-11	CARBON	47K	5%	1/4W		
11001	1 2.0 11	Cimbon	•••	0,0	-,,	•	ŀ		1-249-417-11		1K		1/4₩	F	
R502	1-249-417-11	CARBON	1K	5%	1/4₩	F	.]		1-249-433-11		22K		1/4W		(*1)
R503	1-249-417-11		1K		1/4W				1-249-433-11		22K		1/4₩		(*1)
R504	1-249-417-11		1K		1/4₩		1		1-249-433-11		22K		1/4W		(*1)
R505	1-249-429-11				1/4₩	•		RIOUI	1 210 400 11	Childon	BOIL	070	1/ 11		(+1)
R506	1-249-417-11		1K		1/4W	E		P1035	1-249-415-11	CARRON	680	59	1/47	F	
11300	1 243 411 11	CARDON	115	JA	1/211	1	į		1-249-421-11				1/4W		
R510	1-249-401-11	CAPRON	47	54	1/4W	r			1-249-417-11		1K		1/4W		
R511	1-249-401-11		10K		1/4	r	i		1-249-441-11	-	100K			r	
R511	1-249-425-11				1/47	E]		1-249-416-11		820		1/4W	E	
R512	1-249-425-11		1K		1/4W			1/1000	1-245-410-11	CARDON	020	3/0	1/47	r	
R513	1-249-417-11				1/4W	Г	1	DINEA	1-247-897-11	CADDOM	560K	EQ.	1 / 410		
K514	1-249-429-11	CARDON	101	376	1/47										
DC15	1 040 417 11	CADDON	117	ΕN	1 / 477		1		1-249-437-11		47K		1/4W	Б	
R515	1-249-417-11		1K		1/4₩				1-249-409-11		220		1/4W	Г	
R521	1-249-423-11				1/4W				1-249-441-11		100K			-	
R522	1-249-425-11				1/4₩		1	K1058	1-249-409-11	CARBON	220	5%	1/4W	r	
	1-249-414-11		560		1/4₩		j	21000	1 040 417 11	O'LDDON'	177	F0/	1 / 1 77	_	
R524	1-249-417-11	CARBON	1K	5%	1/4₩	F			1-249-417-11		1K		1/4W		
									1-249-417-11		1K		1/4W	F	
R525	1-249-410-11		270		1/4₩				1-249-441-11		100K			_	
	1-249-421-11				1/4₩		1		1-249-415-11		680		1/4W	F	
R527	1-249-425-11				1/4W			R1071	1-249-437-11	CARBON	47K	5%	1/4W		
R528	1-249-425-11				1/4W										
R529	1-249-405-11	CARBON	100	5%	1/4₩	F			1-249-432-11		18K		1/4W		(A27)
									1-249-437-11		47K		1/4W		
R530	1-249-405-11		100		1/4₩				1-249-417-11		1K		1/4W		
R531	1-249-423-11				1/4₩			R1095	1-249-433-11	CARBON	22K		1/4W		(A27, *11)
R532	1-249-433-11	CARBON	22K		1/4W			R1222	1-249-415-11	CARBON	680	5%	1/4W	F	
R533	1-249-414-11	CARBON	560	5%	1/4W	F ((★:B)								
R534	1-249-417-11	CARBON	1K	5%	1/4\	F ((★:B)	R1223	1-249-415-11	CARBON	680	5%	1/4W	F	
								R1226	1-215-890-11	METAL OXIDE	470	5%	2W	F	
R535	1-249-410-11	CARBON	270	5%	1/4₩	F ((★:B)	R1233	1-249-433-11	CARBON	22K	5%	1/4\		
R536	1-249-421-11	CARBON	2. 2K	5%	1/4W	F ((★:B)	R1234	1-249-433-11	CARBON	22K	5%	1/4W		
R537	1-249-425-11	CARBON	4.7K	5%	1/4W	F ((★:B)	R1235	1-249-437-11	CARBON	47K	5%	1/4₩		
R538	1-249-405-11	CARBON	100	5%	1/4₩	F ((★:B)								
R613	1-249-441-11	CARBON	100K	5%	1/4\	(*9	, 10, 11)	R1236	1-249-441-11	CARBON	100K	5%	1/4W		
								R1237	1-249-429-11	CARBON	10K	5%	1/4		
R631	1-249-441-11	CARBON	100K	5%	1/4₩			R1240	1-249-438-11	CARBON	56K		1/4W		
					(/	A27,	D209, *8)	R1241	1-249-385-11	CARBON	2.2	5%	1/6W	F	(★:A)
R1001	1-249-417-11	CARBON	1K	5%	1/4W	F		R1242	1-249-385-11	CARBON	2.2	5%	1/6₩	F	(★:A)
R1002	1-249-441-11	CARBON	100K				1								
R1003	1-249-416-11	CARBON	820		1/4₩	F		R1243	1-249-385-11	CARBON	2, 2	5%	1/6₩	F	(★:A)
R1004	1-247-897-11	CARBON	560K					R1244	1-249-385-11	CARBON	2.2				(★:A)
R1005	1-249-437-11	CARBON	47K		1/4\			R1272	1-249-415-11	CARBON	680		1/4W		
							i		1-249-415-11		680		1/4W		
R1006	1-249-409-11	CARBON	220	5%	1/4₩	F		R1290	1-249-437-11	CARBON	47K	5%	1/4₩		
	1-249-441-11		100K										_,		
	1-249-409-11				1/4W	F		R1301	1-249-429-11	CARBON	10K	5%	1/4W		
	1-249-417-11		1K		1/4₩		1		1-249-429-11		10K		1/4₩		
	1-249-417-11		1K		1/4W				1-249-433-11		22K		1/4W		
	2 2 10 12 12			0.0	-,	•			1-249-433-11		22K		1/4₩		
R1013	1-249-441-11	CARBON	100K	5%	1/AW				1-249-417-11		1K		1/4W	F	
	1-249-437-11		47K		1/4W		<u>{</u>	11001	2 270 711 11	CHILDON	ŤII	JA	1/ 18	-	
	1-249-437-11		47K		1/4W			R1222	1-249-429-11	CARRON	10K	54	1/4W		
	1-249-437-11		47K		1/4\				1-249-425-11				1/4W	F	
	1-249-437-11		18K		1/4	1	(A27)		1-249-421-11						(★:C)
111066	1 410 404-11	CHILDON	101	3/6	1/48	((nai)		1-249-425-11		1K		1/4W		(X:U)
								14611	1-249-411-11	CARDON	TV.	376	1/47	Ľ	

MAI	N SURI	ROUND	EL H.P	POV	VER S	UPPLY ((B) M	IC STA	NE)- BY	VR
Ref. No	. Part No.	<u>Description</u>	Rem	arks	Ref. No	. Part No.	Descrip	otion		Re	marks
		< VARIABLE RESISTOR :	>		*			PPLY (B) BOAR	D		
RV301	1-238-601-11	RES, ADJ, CARBON 22K			. •	1 040 470 11		*******			
		RES, ADJ, CARBON 22K			*	1-646-479-11	MIC BOAR	D (A27)			
		< RELAY >					******	*****			
					*	1-646-480-11	STAND-BY	SW BOARD			
	1 1-515-533-11 1 1-515-920-11	RELAY (24V) (D209, *8)					******	******			
		< TRANSFORMER >			*	1-646-497-11	VR BOARD ******				
T301	1 404 907 11	TDANCEODHED DICCDIN	NI TOD			1 500 010 11					
T302		TRANSFORMER, DISCRIMI ENCAPSULATED COMPONEN			*	1-533-213-31	HOLDER, I	FUSE (*2, D259) FUSE (*2, D259)			
		< TERMINAL >			*	1-533-217-31 1-533-293-11					
					*	4-942-301-01					
		TERMINAL BOARD (ANTEN TERMINAL BOARD, ANTEN	INA (PAL) (ANTEN	INA)	*	4-949-935-31	CUSHION	(FL) (*2, D259)	· .		
			(*4, 5, 6, 7, 8	3, 9)			< CAPACIT	ror >			
		< TEST PIN >						.01.			
* TP1	1 560 060 00	DIN CONNECTOR OF				1-136-169-00		0. 22uF	5%	50V	
* 1F1	1-200-000-00	PIN, CONNECTOR 2P			C604	1-164-159-11 1-125-486-11		0. 1uF		50V 5. 5	v
		< VIBRATOR >			C606	1-164-159-11		0. luF		5. 5 50V	٧
				•	C607	1-124-907-11		10uF	20%	50V	
		VIBRATOR, CRYSTAL									
X1501	1-579-383-11	VIBRATOR, CRYSTAL				1-161-379-00	-	0.01uF		25V	
						1-161-379-00 1-162-286-31		0.01uF 220PF		25V 50V	
******	********	********	******	**		1-124-907-11		10uF		50V	
						1-124-257-00		2. 2uF		50V	
*	A-4356-640-A	PANEL BOARD, COMPLETE			01100						
*	A-4356-736-A	**************************************				1-124-589-11 1-162-282-31		47uF		16V	
·	11 1000 100 11	**********				1-102-202-31		100PF 2. 2uF		50V 50V	
*	A-4356-623-A	PANEL BOARD, COMPLETE				1-124-464-11		0. 22uF		50V	
4	A 4256 020 A	***************				1-136-161-00		0.047uF	5%	50V	
*	A-4356-93U-A	PANEL BOARD, COMPLETE ************		-	C1107	1 190 155 00	DIIM	0.015.0	50 /		
*	A-4360-822-A	PANEL BOARD, COMPLETE				1-136-155-00 1-136-155-00		0. 015uF 0. 015uF	5% 5%	50V 50V	
		************	****			1-137-437-11		0. 015dr 0. 0056uF	5%	50V	
*	A-4356-924-A	PANEL BOARD, COMPLETE				1-161-327-00		0.0033uF	20%	16V	
•	A_42EC COO +	***************			C1111	1-136-155-00	FILM	0.015uF	5%	50V	
*		PANEL BOARD, COMPLETE	,		C1112	1-136-157-00	RIIM ·	0.02242	E OV	EOV	
*		PANEL BOARD, COMPLETE				1-136-157-00		0. 022uF 0. 01uF	5% 5%	50V 50V	
		*******				1-161-377-00		0.0047uF		16V	
*	A-4360-531-A	PANEL BOARD, COMPLETE			C1115	1-124-257-00	ELECT	2. 2uF	20%	50V	
*	A_4260_E20_A	*****************			C1120	1-161-379-00	CERAMIC	0.01uF	20%	25V	
*	A-4000-040-A	PANEL BOARD, COMPLETE ************			C1121	1-161-379-00	CEDAMIC	0.0100	200	2EV	
*	A-4360-509-A	PANEL BOARD, COMPLETE				1-161-379-00		0.01uF 220PF	20%	25V 50V	
		**********				1-162-215-31		47PF	5%	50V	
		and the second			C1132	1-162-215-31	CERAMIC	47PF	5%	50V	
*	1-646-477-11	H. P BOARD *******			C1151	1-124-257-00	ELECT	2. 2uF	20%	50 V	
					C1152	1-124-589-11	ELECT	47uF	20%	16V	
		— ·				1-162-282-31		100PF	10%		
					C1154	1-124-257-00	ELECT	2. 2uF	20%	50V	

÷					·. ·			·			7		
	PANE	H. P	POV	VER SUPI	PLY	(B)	MIC	STA	ND-BY	VR			٠.
1_			L	· · · · · · · · · · · · · · · · · · ·				J		·	4		
	Ref. No.	Part No.	Descrip	otion		R	emarks	Ref. No.	Part No.	Descri	iption		Remarks
	C1155	1-124-464-11	ELECT	0. 22uF	20%	50V		D614	8-719-987-63	DIODE	1N4148M		
	C1156	1-136-161-00	FILM	0.047uF	5%	507	İ						
	01125	1 100 155 00	DILL	0.015	rw	T011			8-719-987-63		1N4148M		
		1-136-155-00 1-136-155-00		0. 015uF 0. 015uF	5% 5%	50V 50V			8-719-987-63 8-719-987-63		1N4148M	L1	
		1-137-437-11		0. 015dr 0. 0056uF	5%	50V			8-719-987-63		1N4148M (* 1N4148M (*		
		1-161-327-00		0. 0033uF	20%				8-719-987-63		1N4148M (
	-	1-136-155-00		0. 015uF	5%	50V	İ					,	
								D625	8-719-987-63	DIODE	1N4148M		
		1-136-157-00		0. 022uF	5%	50V			8-719-987-63		1N4148M		
	-	1-136-153-00		0.01uF	5%	50V			8-719-987-63		1N4148M		
		1-161-377-00		0. 0047uF	20%				8-719-200-82		11ES2	20	
		1-124-257-00		2. 2uF	20%			D1130	8-719-301-37	LED	SEL2210S-0	CD	
	C1173	1-162-286-31	CERAMIC	220PF	10%	501		D1121	8-719-301-37	LED	SEL2210S-0	n	
	C1181	1-162-215-31	CERAMIC	47PF	5%	50V			8-719-301-37		SEL2210S-0		
		1-162-215-31		47PF	5%	50Y			8-719-301-37		SEL2210S-0		
		1-161-379-00		0. 01uF	20%				8-719-301-37		SEL2210S-0		
	C1237	1-162-282-31	CERAMIC	100PF	10%	50V	(★:A)	D1141	8-719-301-37	LED	SEL2210S-0	CD	
	C1238	1-162-282-31	CERAMIC	100PF	10%	50 Y	(★:A)						
							(8-719-313-69		SEL3210S-0	CD	
		1-162-294-31		0.001uF		50V			8-719-987-63		1N4148M		
	•	1-124-916-11 1-124-916-11		22uF 22uF		63V 63V			8-719-987-63 8-719-987-63		1N4148M 1N4148M		
		1-124-916-11		100uF			(*2)		8-719-987-63		1N4148M		
		1-126-163-11		4. 7uF		50V		01134	0 115-501-05	DIODE	11414011		
	01100		22201		2010	•••				< FILTE	:R >		
	C1409	1-161-379-00	CERAMIC	0. 01uF	20%	25V	(A27)						
	C1410	1-126-163-11	ELECT	4. 7uF	20%	50V			1-519-732-11				
							7, D259)	FL1401	1-519-648-21	INDICAT	OR TUBE, FI	LUORESCENT	(A27)
		1-124-443-00		100uF		10V							
		1-124-925-11 1-124-463-00		2. 2uF 0. 1uF		100V 50V				< IC >			
		1-124-405-00		2. 2uF			(A27)	TC601	8-759-096-99	IC 11P	D75212ACW-/	A A 7	
		1-162-294-31		0. 001uF		50V			8-749-922-36	-	1U50XB	1111	
	•==						(,		8-759-634-51		218AP		
	C1605	1-162-215-31	CERAMIC	47PF	5%	50V	(A27)	IC1102	8-759-634-51	IC M5	218AP		
		1-162-282-31		100PF			(A27)	IC1103	8-759-820-62	IC LE	31639		
		1-162-215-31		47PF	5%		(A27)						
		1-124-589-11		47uF		16V	(A27)		8-759-916-12		74HC00P	07)	
	C1003	1-124-589-11	ELECI	47uF	20%	101	(A27)		8-759-065-87 8-759-634-51			27) 27)	
	C1610	1-162-282-31	CERAMIC	100PF	10%	50V	(A27)	101001	0-135-034-31	ic mo	STORE (A	41)	
	01010	1 100 202 01	ODITIMIZE	10011	10,0	001	(1131)			< JACK	>		
			< CONNEC	CTOR >									
								J601	1-691-002-11	JACK, L	ARGE TYPE	(HEADPHONES)	(*2)
				CONNECTOR 11P					1-573-151-11				(*1)
	CN1101	1-568-802-11	SOCKET,	CONNECTOR 19P				* J1201	1-691-003-11	JACK, L	ARGE TYPE	(MIC)	
			/ DIODE							< COTT			
			< DIODE	2.						< COIL	>		
	D601	8-719-987-63	DIODE	1N4148M				L601	1-410-521-11	INDUCTO)R 10	00uH	
		8-719-010-26		UZ-3. 9BSB									
	D603	8-719-987-63		1N4148M						< TRANS	SISTOR >		
	D604	8-719-987-63	DIODE	1N4148M									
	D605	8-719-987-63	DIODE	1N4148M				_	8-729-620-05			603-EF (*2,	
	2000	A #10 000 15	27077					-	8-729-119-78			785-HFE (*1,	, D209)
	D606	8-719-933-48		HZS7B3L					8-729-900-80				
		8-719-987-63 8-719-987-63		1N4148M			Ì	-	8-729-900-80				D2E0)
	D612 D613	8-719-987-63		1N4148M 1N4148M				Q1101	8-729-620-05	TKAN212	150g 7010	603-EF (*2,	, D499)
	2010	~ 120 001 UU					1						

DANIEL					
PANEL	H. P	POWER SUPPLY (B)	MIC	STAND-BY	VR

Ref.	No. Part No.	Description	<u>on</u>			Remarks	Ref. No	. Part No.	Descript	ion				Remar	ks
011	101 8-729-119-78	TRANSISTOR	250	2785-H	FF (*	1 0200)	D1114	1-240-420 11	CADDOM	1.077	ro/	1 / 478			
	102 8-729-141-26					1, 0203)	,								
-	121 8-729-900-36				LN										
					nn		K1116	1-247-852-11	CARBON						
	122 8-729-119-76				FE							1/4₩			
Q11	136 8-729-900-36	TRANSISTOR	DTC	124ES			R1118	1-249-425-11	CARBON	4.7K	5%	1/4W	F	•	
011	138 8-729-900-36	TRANSISTOR	DTC	12/FS			D1110	1_240_425_11	CADDON		-w	1 / / 77	_		
-	141 8-729-900-63														
-	142 8-729-900-63														
												1/4₩	F		
	143 8-729-900-80									220K	5%	1/4W			
QII	144 8-729-900-80	TRANSISTOR	DTC	114ES			R1123	1-249-421-11	CARBON	2. 2K	5%	1/4₩	F		
011	45 8-729-900-61	TRANSISTOR	DTA	114ES			R1124	1-249-425-11	CAPRON	4 7V	E9/	1 / / W	г		
	51 8-729-620-05				F (*	2 D259)							Г		
	51 8-729-119-78												_	(,	
	52 8-729-141-26														
ØII	154 6-149-141-40	TRANSISIUR	25C3622A-LK Fili5 1-249-429-11 CARBON 10K 5% 1/4W Fili5 1-249-429-11 CARBON 7.5K 5% 1/4W Fili5 1-249-425-11 CARBON 7.5K 5% 1/4W Fili5 1-249-425-11 CARBON 7.5K 5% 1/4W Fili5 1-249-425-11 CARBON 4.7K 5% 1/4W Fili5 1-249-425-11 CARBON 4.7K 5% 1/4W Fili5 1-249-425-11 CARBON 3.3K 5% 1/4W Fili5 1-249-425-11 CARBON 2.2K 5% 1/4W Fili5 1-249-425-11 CARBON 2.2K 5% 1/4W Fili5 1-249-425-11 CARBON 2.2K 5% 1/4W Fili5 1-249-435-11 CARBON 3.3K 5% 1/4W Fili5 1-249-423-11 CARBON 3.3K 5% 1/4W Fili5 1-249-423-11 CARBON 3.3K 5% 1/4W Fili5 1-249-423-11 CARBON 3.3K 5% 1/4W Fili5 1-249-421-11 CARBON 3.3K 5% 1/4W Fili5 1-249-412-11 CARBON 3.3K												
		/ DECLOTOR					R1130	1-249-412-11	CARBON	390	5%	1/4W	F		
		< RESISTOR	>				D1122	1 040 410 11	CADDON	200			_		
R60	1-249-429-11	CARRON	101	ro/	1 / 4177										
											5%	1/4W	F		
R60				R1114 1-249-429-11 CARBON 10K 5K 1/4F											
R60			2822785-HEE (+1, D209) 2823022A-LK 28116 1-249-429-11 CARBON 10K 5% 1/4W 2823175-HEE 2831175-HEE 9-432-H-L CARBON 28305-KS 1/4W 2831175-HE249-432-H-L CARBON 28305-KS 1/4W 2831175-HE249-432-H-L CARBON 28305-KS 1/4W 2831175-HE249-432-H-L CARBON 28305-KS 1/4W 2831175-HE249-432-H-L CARBON 28305-KS 1/4W 2831175-HE249-432-H-L CARBON 28305-KS 1/4W 2831175-HE249-432-H-L CARBON 28305-KS 1/4W 2831175-HE249-432-H-L CARBON 28305-KS 1/4W 2831175-HE249-432-H-L CARBON 28305-KS 1/4W 2831175-HE249-432-H-L CARBON 28305-KS 1/4W 2831175-HE249-432-H-L CARBON 28305-KS 1/4W 2831175-HE249-432-H-L CARBON 28305-KS 1/4W 2831175-HE249-432-H-L CARBON 28305-KS 1/4W 2831175-HE249-432-H-L CARBON 28305-KS 1/4W 2831175-HE249-432-H-L CARBON 28305-KS 1/4W 28305-KS 1/4W 2831175-HE249-432-H-L CARBON 28305-KS 1/4W 2831175-HE2												
R60						(*4, 8)	R1143	1-249-433-11	CARBON	22K	5%				
R60	5 1-249-433-11	CARBON	22K	5%	1/4₩		D11.45	1 040 410 41	21222	•••					
R60	E 1 240 422 11	CADDON	200	-N	1 / 477								·F		
												1/4W			
R60'										100K	5%	1/4₩			
R60										1K	5%	1/4₩	F		
R60		CARBON	100	5%	1/4W	F	R1154	1-249-441-11	CARBON	100K	5%	1/4W			
R61	0 1-249-429-11	CARBON	10K	5%	1/4W										
Dati	1 1040 400 41	G.177011										1/4W			
R61			47K							3. 9K	5%	1/4₩	F		
R61		CARBON	1K				R1157	1-249-441-11	CARBON	100K	5%	1/4W			
R61:	3 1-249-425-11	CARBON	4.7K	5%	1/4W	F							F		
R61	4 1-249-393-11	CARBON	10	5%	1/4₩	F									
R62	1 1-249-433-11	CARBON	22K	5%	1/4\		-			000	070	4/ 11	-		
							R1160	1-249-431-11	CARBON	15K	5%	1/4W			
R622			22K	5%	1/4W		R1161	1-249-439-11	CARBON	68K	5%	1/4W			
R623	3 1-249-433-11	CARBON	22K	5%	1/4W		R1162	1-249-433-11	CARBON						
R624	4 1-249-433-11	CARBON	22K	5%	1/4₩										
R625	5 1-249-417-11	CARBON	1K	5%	1/4₩	F (*1, D259)									
R642	2 1-249-409-11	CARBON	220					2 2 10 100 11	CHILDON	1011	3/9	1/47			
							R1165	1-249-429-11	CARBON	10K	5%	1/4W			
R643	3 1-249-417-11	CARBON	1K	5%	1/4₩	F (*2, D209,									
R106	65 1-249-409-11	CARBON	220	5%	1/4W								_		
	01 1-249-441-11					1 (+4)									
	02 1-249-417-11					P	K1109	1-249-425-11	CARBON	4. 7K	5%	1/4W	F		
						r									
KIIC	03 1-249-431-11	CARDUN	127	5%	1/4#							1/4W	F		
D110		C.1770								3. 3K	5%	1/4W	F		
	04 1-249-441-11			5%	1/4		R1172	1-247-887-00	CARBON	220K	5%	1/4W			
	05 1-249-433-11				1/4₩		R1173	1-249-421-11	CARBON				F		
R110	06 1-249-424-11	CARBON	3. 9K	5%	1/4₩	F									
R110	07 1-249-441-11	CARBON	100K	5%	1/4₩							-, -"	-		
R110	08 1-249-427-11					F	R1176	1-249-423-11	CARBON	3. 3K	5%	1/49	F	(427)	
R110	09 1-249-412-11	CARBON	390	5%	1/4\	F									
	10 1-249-431-11							- P10 410 11	CHILDVII	1. CV	J/0	1/47	r	(NG1)	
	11 1-249-439-11						P1402	1_2/7_991 00	CADDON	1007	F9/	. 1 / 4 ==		(107)	
	12 1-249-433-11													-	
	13 1-249-431-11					ļ	N1403	1 240 400 3	CARBUN						
4111	.o 1 223-401-11	CARDON	R DTA114ES R ZSC2603-EF (*2, D259) R ZSC2603-EF (*2, D259) R ZSC2603-EF (*2, D259) R ZSC362A-LK R 1126 1-249-423-11 CARBON 3.3 K 5% 1/4W F (A27) R ZSC362A-LK R 1127 1-249-433-11 CARBON 3.3 K 5% 1/4W F (A27) R 1130 1-249-412-11 CARBON 3.9 K 5% 1/4W F (A27) R 1130 1-249-412-11 CARBON 3.9 K 5% 1/4W F (A27) R 1131 1-249-412-11 CARBON 3.9 K 5% 1/4W F R 1131 1-249-412-11 CARBON 3.9 K 5% 1/4W F R 1132 1-249-412-11 CARBON 3.9 K 5% 1/4W F R 1133 1-249-412-11 CARBON 3.9 K 5% 1/4W F R 1134 1-249-412-11 CARBON 3.9 K 5% 1/4W F R 1141 1-249-412-11 CARBON 3.9 K 5% 1/4W F R 1141 1-249-412-11 CARBON 3.9 K 5% 1/4W F R 1141 1-249-412-11 CARBON 3.9 K 5% 1/4W F R 1141 1-249-412-11 CARBON 3.9 K 5% 1/4W F R 1141 1-249-412-11 CARBON 3.9 K 5% 1/4W F R 1141 1-249-412-11 CARBON 3.9 K 5% 1/4W F R 1141 1-249-412-11 CARBON 3.9 K 5% 1/4W F R 1141 1-249-412-11 CARBON 3.9 K 5% 1/4W F R 1141 1-249-412-11 CARBON 3.9 K 5% 1/4W F R 1141 1-249-412-11 CARBON 3.9 K 5% 1/4W F R 1141 1-249-412-11 CARBON 3.9 K 5% 1/4W F R 1145 1-249-412-11 CARBON 3.3 K 5% 1/4W F R 1145 1-249-412-11 C												
						•									

		1	·					, ,				
PANE	L H. P	POWER	SUPPLY	(B)	MIC	STA	ND-BY	VR	POWE	ER A	MP	LIFIER
Ref. No.	Part No.	Description		Rem	arks	Ref. No.	Part No.	Descrip	tion			Remarks
		COMPOSITION CI	RCHIT BLOCK	(A27				< VIBRATO	JR >			
		COMPOSITION CI		(A27	1			\ \IDKAIC	A /			
	1-249-429-11		5% 1/4W	(A27		X601	1-567-775-11	VIBRATOR.	CERAMIC			
	1-249-417-11			F (A27				,				
	1-249-412-11		5% 1/4W	F (A27)							
						******	*******	*******	******	*****	*****	*****
	1-249-434-11			(A27	1							
	1-249-433-11			(A27		*	A-4356-649-A	POWER AMP	LIFIER BOAL	RD, CO	MPLETE	(*1)
R1606	1-249-437-11	CARBON 47F	5% 1/4W	(A27)				*******			
		A WARTING DEC	TOWNS .			*	A-4356-749-A					• •
•		< VARIABLE RES	SISTUR >				1 1000 000 1		*******			
DV1101	1_992_951_11	RES, VAR, CARE	ON 1001/1001	CHIDDOHN	0)	*	A-4356-628-A		LIFIER BOA	,		/
		RES, VAR, CARE		•		*	A-4356-935-A					
		RES, VAR, SLII				•	N 4000 000 N		*******			
		RES, VAR, SLII			1	*	A-4356-616-A					
		RES, VAR, SLII							******	,		
						*	A-4360-546-A	POWER AME	LIFIER BOAL	RD, CO	MPLETE	(\$8)
		RES, VAR, SLII						*******	******	*****	*****	****
		RES, VAR, SLII				*	A-4360-537-A	POWER AMP	LIFIER BOA	RD, CO	MPLETE	(*9)
		RES, VAR, CARE)				*******			
		RES, VAR, CARE				*	A-4360-527-A					
RV1153	1-223-289-11	RES, VAR, SLII	E 100K (100Hz)		1		1 4000 510 1		*******			
DW1154	1 000 000 11	DEC MAD CLI	NE 1000 (22011)		1	*	A-4360-516-A			,		,
		RES, VAR, SLII RES, VAR, SLII						******	*******	*****	*****	*****
		RES, VAR, SLII		٠)				< CAPACIT	'AP \			
		RES, VAR, SLIE						CALACII	olt /			
		,,	2 20011 (201112)			C1201	1-124-257-00	ELECT	2. 2uF	20%	50V	
		< SWITCH >					1-162-286-31		220PF	10%	50V	
					}							PT ★:A)
		SWITCH, TACTII			1	C1202	1-162-290-31	CERAMIC	470PF	10%	50 V	(★:A)
		SWITCH, TACTII				C1203	1-162-286-31	CERAMIC	220PF	10%	50V	
		SWITCH, TACTII										PT ★:A)
		SWITCH, TACTII					1-162-292-31		680PF	10%		(★:A)
S605	1-554-303-21	SWITCH, TACTII	Æ (5)				1-124-477-11		47uF	20%	25V	
2022	1 554 202 01	CHITCH TACTI	D (0)		Ì		1-124-910-11		47uF	20%	50 V	
S607		SWITCH, TACTII SWITCH, TACTII			1		1-124-122-11 1-136-165-00		100uF	20%	50V	
S608		SWITCH, TACTII				C1201	1-130-103-00	LILM	0. 1uF	5%	50 V	
		SWITCH, TACTII				C1208	1-124-916-11	FLFCT	22uF	20%	63V	
S610		SWITCH, TACTII					1-164-159-11		0. 1uF	20/0	50V	
2			N=7				1-136-163-00		0. 068uF	5%	50V	
S611	1-554-303-21	SWITCH, TACTII	E (+)		.]		1-136-163-00		0.068uF	5%	50V	
S612	1-554-303-21	SWITCH, TACTII	E (-)			C1220	1-124-910-11	ELECT	47uF	20%	50V	
S613	1-554-303-21	SWITCH, TACTII	E (SHIFT)									
S614	1-554-303-21	SWITCH, TACTII	E (BAND SELECT	()	. [C1230	1-161-494-00	CERAMIC	0.022uF		25V	(★:A)
S615	1-554-303-21	SWITCH, TACTII	E (ST/MUTE)				1-161-494-00		0. 022uF			(★:A)
							1-161-494-00		0. 022uF			(★:A)
		SWITCH, TACTIL					1-161-494-00		0. 022uF			(★:A)
		SWITCH, TACTIL			-0)	C1251	1-124-257-00	ELECT	2. 2uF	20%	50V	
		SWITCH, TACTIL		11, *4, D2	59)	01000	1 100 000 00	opp by c	000	1.04/		
		SWITCH, TACTIL				C1252	1-162-286-31	CERAMIC	220PF	10%		n 1 . 1
S621	1-554-303-21	SWITCH, TACTII	.в (CD)		1	C1959	1_160 200 22	CEDINIC	470DF			(A:★↑)
S622	1-554-303-21	SWITCH, TACTIL	F (TIMER)			C1252	1-162-290-31	CERAMIC	470PF	10%	507	(★:A)
		SWITCH, TACTIL										
		SWITCH, PUSH (CY)								
				,	1							

POWER AMPLIFIER

POWER SUPPLY

Pof No	. Part No.	Description	on			Remarks	I Ref No.	Part No.	Descripti	on			Remarks
				* ***		unns						3 / 1 ***	
C1253	1-162-286-31	CERAMIC	220PF		50V		,	1-249-421-11		2. 2K		-	
						T ★:A)	1	1-249-421-11		2. 2K		-	
	1-162-292-31		680PF	10%		(★:A)		1-249-397-11		22	5%	,	
	1-124-477-11		47uF	20%	25V		1 .	1-249-397-11		22	5%		
	1-124-910-11		47uF	20%	50V		R1220	1-249-397-11	CARBON	22	5%	1/4W	F .
	1-124-122-11		100uF	20%	50V								
C1257	1-136-165-00	FILM	0. luF	5%	·50V		1	1-249-397-11		22	5%	1/4₩	F
								1-249-429-11		10K	5%	1/4W	
	1-136-163-00		0.068uF		50V			1-247-881-00		120K			
	1-136-163-00		0.068uF		507		}	1-249-439-11		68K	5%		
C1280	1-161-494-00	CERAMIC	0. 022uF	•	25V	(★:A)	R1230	1-249-439-11	CARBON	68K	5%	1/4W	
													_
		< CONNECTO	R >				1	1-249-417-11		1K	5%		
								1-249-428-11		8. 2K			F
	1 1-564-518-11						ł ·	1-249-433-11		22K	5%	1/4W	
* CN120	2 1-564-522-11	PLUG, CONN	ECTOR 7P	1				1-249-426-11		5. 6K			
							R1241	1-249-383-81	CARBON	1.5	5%	1/4₩	F (*3, 5, 7)
		< DIODE >							0.100				_
2								1-249-417-11	_	1K	5%	1/4₩	F
	8-719-987-63							1-249-438-11		56K	5%	1/4₩	_
D1251	8-719-987-63	DIODE IN	4148M					1-249-417-11		1K	5%	-	F
								1-249-438-11		56K	5%		
		< IC >					R1255	1-249-425-11	CARBON	4.7K	5%	1/4₩	F
				(10 m	• >				O.L. D. D. C. C.				
	1 8-749-900-24							1-249-425-11		4. 7K			
IC120	1 8-749-900-96	IC STK-4	142MK2 (D209, *8	, 9, 10)			1-249-425-11		4.7K			
								1-249-425-11		4.7K			
		< COIL >					1	1-212-881-11		100	5%	-,	F
							▲R1260	1-217-151-00	RES, METAL	PLATE		0.22	
L1221	1-420-872-00	COIL, AIR	CORE										
L1251	1-420-872-00	COIL, AIR	CORE				R1261	1-249-417-11	CARBON	1K	5%	1/4W	F
							R1262	1-249-431-11	CARBON	15K	5%	1/4₩	
		< TRANSIST	OR >				R1263	1-249-441-11	CARBON	100K	5%	1/4₩	
							R1268	1-249-397-11	CARBON	22	5%	1/4W	F
Q1201	8-729-140-84	TRANSISTOR	2SC18	41-PAFA	EA		-R1269	1-249-397-11	CARBON	22	5%	1/4₩	F
Q1202	8-729-900-80	TRANSISTOR	DTC11	4ES									
Q1203	8-729-620-05	TRANSISTOR	2SC26	03-EF	(*2, D2	59)	R1270	1-249-397-11	CARBON	22	5%	1/4₩	F
Q1203	8-729-119-78	TRANSISTOR		85-HFE			1	1-249-397-11		22	5%		
	8-729-140-84			41-PAFA	, ,							-,	•
4							1						
		< RESISTOR	>				******	********	******	*****	***	*****	*****
R1201	1-249-417-11	CARBON	1K	5% 1/	4₩ F		*	1-646-474-11	POWER SUPP	LY BOAR	D		
R1202	1-249-438-11	CARBON	56K	5% 1/	4W				********	*****	*		
	1-249-417-11		1K	5% 1/	4₩ F		1 .						
	1-249-438-11			5% 1/					< CAPACITO	R >			
R1205					4₩ F								
							C1301	1-161-744-00	CERAMIC	0.01uF			400V
R1206	1-249-425-11	CARBON	4. 7K	5% 1/-	4₩ F			1-124-122-11		100uF		20%	50V
	1-249-425-11				4₩ F		1	1-124-927-11		4. 7uF		20%	100V
	1-249-425-11		4. 7K		4W F		1	1-124-910-11		47uF		20%	50V
	1-212-881-11				4₩ F		1	1-124-636-00		3300uF		20%	25V
	1-217-151-00			0.			0.010	- 15. 000 00		ooodi		2070	231
				0.			C1348	1-164-159-11	CERAMIC	0. 1uF			50V
R1211	1-249-417-11	CARBON	1K	5% 1/	4₩ F		01040	- 101 100 11	- Committee	o. Iui		(±1	5, 6, 7, D259)
	1-249-431-11			5% 1/			C1363	1-124-916-11	FIFCT	22uF		20%	63V
	1-249-441-11		100K				C1302	1 174 910-11	PPEC1	asur		20/0	001
	1-249-441-11				47 F								
	1-249-421-11				4m r 4W F								
K1Z15	1-649-461-11	MUDDIN	2. 2K	אנט 1/-	ts l'			Note:		Note:			
								The compone	ents identi-		mne	sants in	dentifiés par
								fied by mark					ont critiques
								ted line with	mark 🛕	pour la	séc	curité.	. 1
							20	are critical for					que par une
						-	39 —	Replace only number speci		pièce ; fié.	porta	ant le nu	méro spéci-
								number spec	meu.	ne.			

POWER SUPPLY

Ref. N	o. Part No.	Description	Remarks Re	ef. No.	Part No.	Description	n.	Remarks
		< CONNECTOR >		-	1-532-203-00		D209, *9, 10)	
							A27, D209, *9, 10)	
		PIN, CONNECTOR 2P			1-576-104-11		*8)	
CN131	11 1-506-468-11	PIN, CONNECTOR 3P			1-532-203-00		D209, *9, 10)	
		(DIODE)	ΔF	1304	1-534-465-00	ruse 2. DA (A27, D209, *9, 10)	
D1307	7 8-719-002-60	DIODE UZL-33L	ΔF	F1304	1-576-104-11	FUSE 2A (*8)	
D1309	9 8-719-014-66		1				A27, D209, *9, 10)	
	8-719-200-82		,		1-576-105-11			
	0 8-719-200-82 1 8-719-987-63						A27, D209, *9, 10)	
D134.	1 0-113-301-03	DIODE IN4140M		.1300	1-576-105-11	ruse 2. SA (*0, 11)	
D1322	2 8-719-987-63	DIODE 1N4148M	TΔ	T1301	1-423-431-11	TRANSFORMER	, POWER (*11)	
	4 8-719-200-82						, POWER (D209)	
D135	5 8-719-200-82	DIODE 11ES2					, POWER (*8, 9, 10)	
		< TRANSISTOR >			1-423-438-11 1-423-438-21			
		\ Indistinct	251	11301	1-423-430-21	TRANSPORMER	, FUMER (+2)	
Q130	1 8-729-141-83	TRANSISTOR 2SA473	***	******	*******	******	******	******
		< RESISTOR >			ACCESSORIES	& PACKING	MATERIALS	

	3 1-249-421-11	•						
	4 1-249-425-11						STANDARD (RM-S271)	
K139	1 1-202-725-00	SOLID 3.3M 10% 1/2W (*)	.1)				OP (*4, 5, 7, 8, D259: (*4, 5, 7, 8, D259:	
		< RELAY >					CTION 13P (*4, 5, 7,	
			*				NY SYMBOL (10)	, 5500 (1150)
	01 1-515-720-11							
RY130	01 1-515-738-11	RELAY, POWER			3-707-584-01			DEPLOY (
		< TRANSFORMER >			3-130-331-41		TRUCTION (ENGLISH/) SPANISH/PORTUGUESE	
		THE OF STREET			3-756-331-51		TRUCTION (GERMANY/	
		TRANSFORMER, POWER (EXCEPT *11)					SWEDISH/ITALIAN) (D	
△ T1302	2 1-450-786-11	TRANSFORMER, POWER (*11)					TRUCTION (DANISH/F	
		< VOLTAGE SELECTION >			3-756-333-41		TRUCTION (ENGLISH/	
		VOLTAGE SELECTION >			3-756-333-51		SPANISH/PORTUGUESE TRUCTION (GERMANY/I	
∆ VS130	01 1-572-266-11	SWITCH, VOLTAGE SELECTION (A27)					SWEDISH/ITALIAN) (D	
			*		4-956-903-01	INDIVIDUAL	CARTON (D209:AE2, *	4)
*****	k*************	***********	*****		4-958-606-01	CUSHION (D2	09:AE2, *4)	
		MISCELLANEOUS	***	*****	*******	******	*******	*****

18	1_500_578_11	WIRE, FLAT TYPE (19 CORE)				*******		
19		WIRE, FLAT TYPE (11 CORE)				DWARE LIS		
19		WIRE, FLAT TYPE (11 CORE) (D209)			******			
△64		CORD, POWER (*4,,5,6,7,8,9)	1	1 '	7-685-646-79	SCREW +BVTP	3X8 TYPE2 N-S	
∆ 64	1-575-653-11	CORD, POWER (A27:E)	#	2 '	7-685-871-01	SCREW +BVTT	3X6 (S)	
∆ 64	1-600-608-11	CORD, POWER (A27:AU2)						
△64		CORD, POWER (*11)		ſ	Note:		Note:	
∆ 64		CORD, POWER (*3, 10)			The compone		Les composants ide	entifiés par
 ∆64	1-696-848-21	CORD, POWER (*1)			fied by mark	A or dot-	une marque A so	nt critiques
△F1301	1-532-350-00	FUSE 4A (A27, D209, *9, 10)			ted line with		pour la sécurité. Ne les remplacer que	ue par une
W E1301	1-576-108-11	FUSE 4A (*8, 11)			Replace only	with part	pièce portant le nur fié.	néro spéci-
		FUSE 4A (A27, D209, *9, 10)		L	number spec	meu.	110.	
		FUSE 4A (*8, 11)						
								English

Sony Corporation Audio Group

-- 40 --

English 93B1666-1 Printed in Japan © 1993.2

PS-LX52/LX52P

SONY. SERVICE MANUAL

US Model Canadian Model AEP Model E Model Australian Model

CORRECTION-1

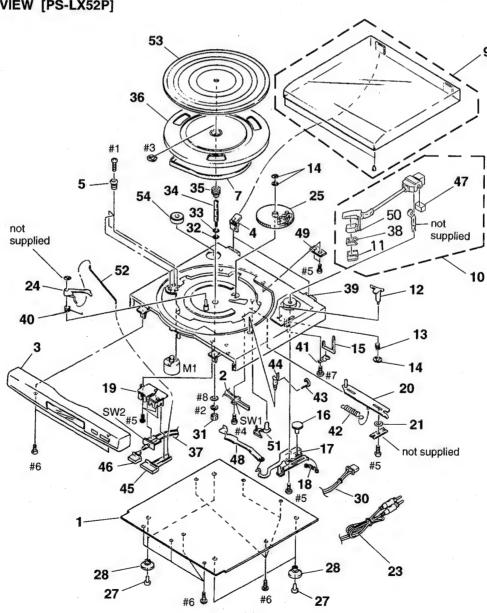
Correct your service manual as shown below.

UK Model PS-LX52P

Subject: Correction of EXPLODED VIEW (PS-LX52P)

(SPM-95043)

EXPLODED VIEW [PS-LX52P]



Note:

- Item marked "*" are not stocked since they are seldom required for routine services. Some selay should be anticipated when ordering these items.
- The mechanical oarts with no refernce number in the exploded views are not supplied.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-950-488-01	BOTTOM BOARD		36	4-947-494-01	TURNTABLE PLATTER	
2	1-696-144-11	WIRE (45) (RED)		37	1-696-143-11	WIRE (30) (WHT)	•
3	A-4660-303-A	FRONT PANEL ASSY		38		STYLUS (CN-234)	
4	4-947-476-01	HINGE		39		MAIN CABINET (G)	
5	4-947-505-01	CUSHION MOTOR		40	4-947-496-01	• • •	
7	4-947-503-01	BELT		41	4-947-477-01	CUEING (BASE)	
9	A-4604-946-A	DUST COVER ASSY		42	4-947-485-01	SPRING (22)	
10	A-4604-940-A	ARM ASSY, TONE		43	4-947-490-01		
11	4-948-095-01	COVER, CARTRIDGE		44	4-947-491-01	ARM REST	
12	4-947-466-01	TONE ARM ELEVATOR		45	4-956-997-01	KNOB REJECT	
13	4-947-467-01	SPRING (6)		46	4-956-996-01	KNOB SPEED	
14	4-947-514-01	4MM CS RING		47	4-947-464-01	COUNTER WEIGHT	
15	4-947-468-01	LEVER, CUEING		* 48	4-947-487-01	RETURN LINK	
16	4-947-470-01	ADJUST CAM		* 49	1-644-410-11	PC BOARD	
* 17	4-947-471-01	LINK, RETURN		50	1-251-028-11	CARTRIDGE (MAIN)	
18	4-947-472-01	, ,		51	4-957-000-01	PLASTIC RETURN	
19	4-956-998-01			52	4-948-101-01	SPRING (38)	
20		LEVER RETURN ASSY		53	A-4674-087-A	TURN TABLE MAT ASSY	
21	3-659-350-00	WASHER		54	3-701-806-00	ADAPTOR, 45	
23	1-555-116-11	CORD, PHONE		M1	A-4604-945-A	MOTOR ASSY	
24	4-947-495-01	.,		SW1	1-570-666-11	SWITCH (LEAF)	
	A-4604-916-A	GEAR ASSY, SPUR		SW2	1-571-089-11	PUSH SWITCH (SPEED)	
27	4-950-497-01	FOOT SEAT		#1	7-621-773-87	SCREW (64)	
28	4-950-490-01	PLASTIC STAND		#2	7-623-210-22	WASHER (57)	
30	1-557-109-21	CORD, DC		#3	7-624-110-04	6MM E RING	
	4-947-510-01	NUT		#4	7-685-105-01	SCREW (59)	
	3-451-162-00	WASHER (56)		#5	7-685-647-79	SCREW (58)	
33	3-701-445-21	WASHER		#6	7-685-646-79	SCREW (60)	
34	4-947-498-01	STELL BALL		#7	7-685-645-79	SCREW (68)	
35 .	4-947-497-01	GEAR		#8	7-688-005-01		

PS-LX52/LX52P

SERVICE MANUAL

REVISED



Photo: PS-LX52

US Model Canadian Model AEP Model E Model Australian Model PS-LX52 UK Model PS-LX52P

•PS-LX52P is the STEREO TURNTABLE SYSTEM in LBT-D109CD/LBT-A17CD/ LBT-D108CD/LBT-D159CD/LBT-D209CD/ LBT-D259CD/LBT-D309CD/LBT-D359CD.

SPECIFICATIONS

Turntable

Platter Motor Drive system Speed

Wow and flutter Signal-to-noise ratio Automatic System

Tonearm

Type Pivot-to-stylus length Overall arm length

Cartridge

Type Frequency response Stylus

General

Dimensions

Weight

Power requirement

Power consumption Accessory supplied Optional accessories DC servo motor Belt drive 0.2% (WRMS)

331/3 rpm/45 rpm switchable

60 dB (DIN-B)

30cm (12 in.)

Dynamically balanced 203 mm (8 in.)

235 mm (91/4 in.)

Moving magnet type 20 Hz-20 kHz ND-155G

355 × 94 × 345 mm(w/h/d) (14 × 33/4 × 135/6 inches) Approx. 2.5 kg (5 lb 8 oz)

US, Canadian model: 120V AC, 60 Hz AEP, Italian, East European, CIS model: 220-230V AC, 50/60 Hz UK model: 12V DC

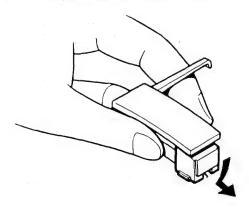
PX, E, Saudi Arabia, Singapore, Malaysia model: 110-120V/220-240V AC, adjustable with the voltage selector, 50/60 Hz

Australian model: 240V AC, 50 Hz 4W (except UK model) 45-rpm adaptor (1)

Replacement stylus ND-155G Stat spray XP-C10 Cleaner XP-C1, XP-C2

Design and specifications subject to change without notice.

REPLACING THE STYLUS



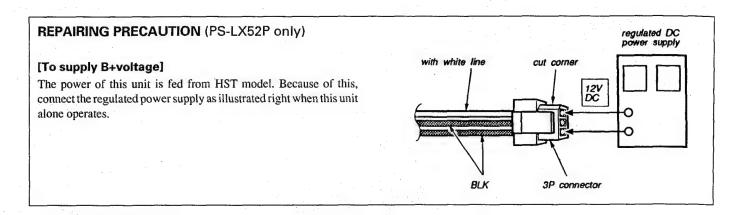
Replace the stylus after about 400 hours of use because using a worn stylus will damage records. An ND-155G replacement stylus is available at your Sony dealer.

Be sure to turn the amplifier off before proceeding with replacement.

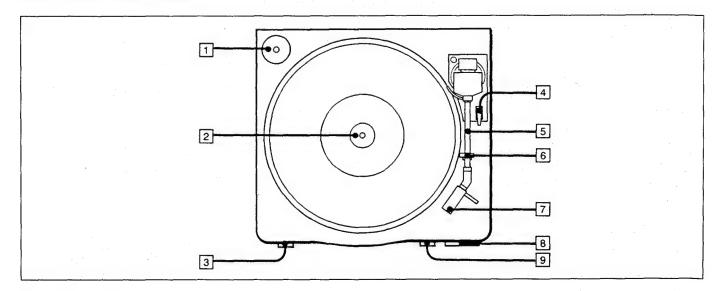
- While holding the cartridge, detach the stylus assembly as
- Insert the new stylus into the cartridge.



STEREO TURNTABLE SYSTEM SONY

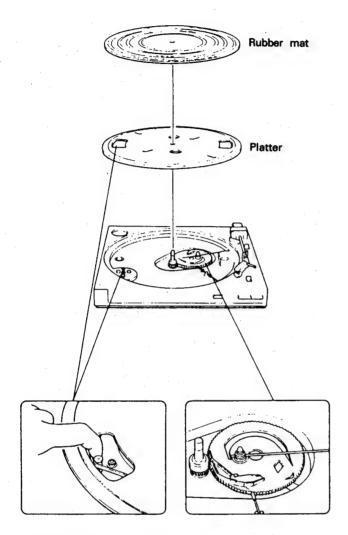


LOCATION OF CONTROLS



- 1 45-rpm adaptor
- 2 Center spindle
- 3 POWER switch (PS-LX52 only)
- 4 Cueing lever
- 5 Tonearm
- 6 Arm rest
- 7 Cartridge
- 8 REJECT button
- 9 Speed selector

TURNTABLE ASSEMBLY

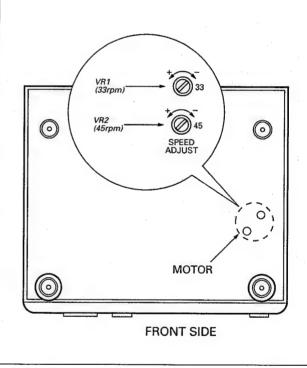


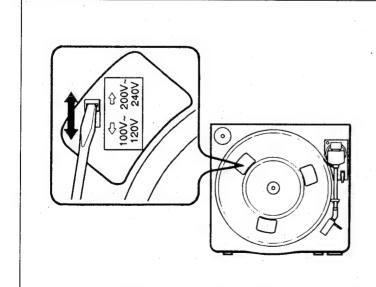
Hook the belt on the motor pulley. If the belt is removed from the platter, replace it with the glossy side outward.

Speed Adjustment

Note: Be sure to perform 45rpm adjustment before 33rpm.

- 1. Place a stroboscope board on the turntable sheet.
- Set the SPEED switch to 45.
 Press the START button.
 Adjust VR2 so that the striped pattern of stroboscope board is stationary.
- 3. Set the SPEED switch to 33. Adjust VR1 in the same way.



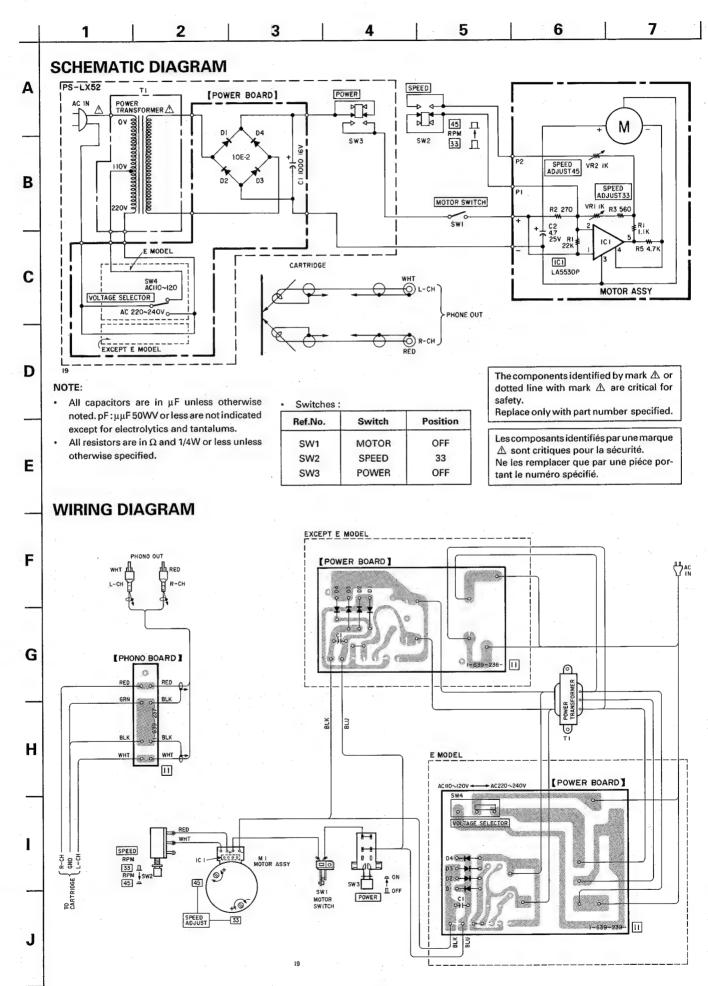


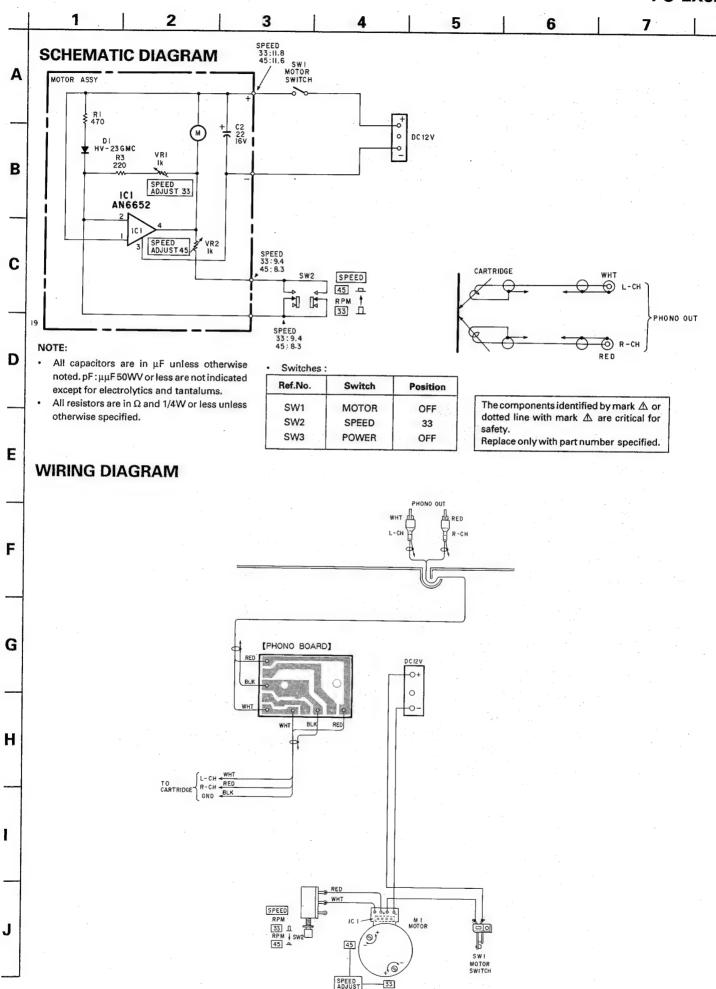
Setting the Voltage Selector

PS-LX52 (E, Saudi Arabia, PX, Singapore, Malaysia model)

For customers of the model equipped with the voltage selector

Check to confirm that the voltage selector is set to the local power line voltage. If not, set the voltage selector to the correct position before connecting the AC power cord to a wall outlet.





-5-

EXPLODED VIEW [PS-LX52]

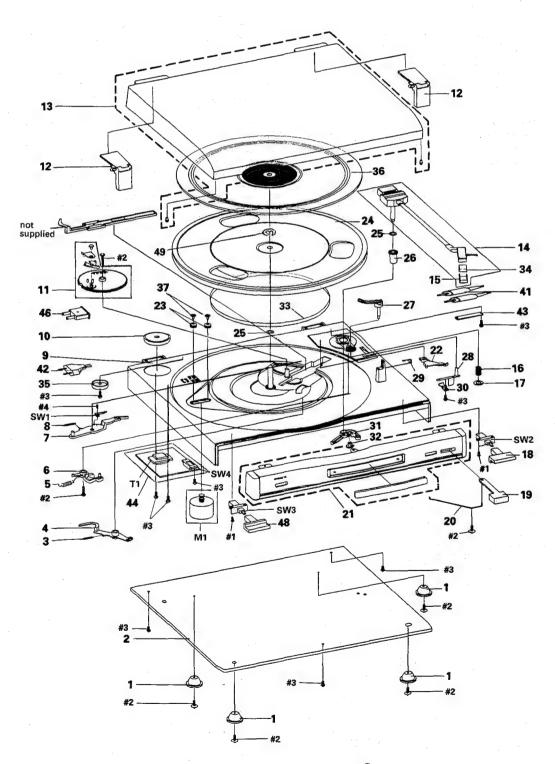
NOTE:

- –XX, –X mean standardized parts, so they may have some differences from the original one.
- The construction parts of an assembled part are in dicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Screw(# mark) list is given in the last of this parts list.

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

- PX, Saudi Arabia, Singapore and Malaysia models are identical to E model.
- Italian, EE, and CIS models are identical to AEP model.
- · AUS: Australian model
- · EE: East European model



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description Remarks	
1	4-950-472-01	I FOOT		28	4-950-440-0	1 LEVER-CUEING	÷
* 2	4-958-328-01	L COVER-BOTTOM		29		1 LOCKER-ARM	
3	4-950-453-01	SPRING-REJECT		30	4-950-441-0	1 BRACKET-CUEING	
4	4-950-452-01	LEVER-REJECT		31	4-950-450-0	1 ARM-FEED	
5	4-950-455-01	I SPRING-ELEVATOR		32	4-950-451-0	1 CAM-ADJUST	
6	4-950-454-01	LELEVATOR		33	4-950-434-0	1 BELT	
. 7	4-950-463-01	ARM-CONTROL		34	4-944-756-0	1 CARTRIDGE (AT-3600LAX)	
8	4-950-464-01	SPRING-CONTROL ARM		* 35	4-950-514-0	1 WASHER CODE	
* 9	4-950-431-01	L CABINET-UPPER		36	A-4660-142-	A RUBBER ASSY, SHEET	
10	4-950-467-01	ADAPTOR-45RPM		37	4-950-469-0	1 SCREW-SETTING MOTOR	
11	A-4660-140-A	A GEAR ASSY, RING		41	1-590-871-1	1 CORD, CONNECTION (3 CORE)	
12	4-950-432-01	1 HINGE		1 1 4 2	1-590-836-1	1 CORD, POWER (E)	
13	A-4660-138-A	A COVER ASSY, DUST		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1-551-294-1	1 CORD, POWER (AEP)	
14		A ARM ASSY, TONE		△42	1-696-382-1	1 CORD, POWER (US, Canadian)	
15		1 STYLUS (ND-155G)		△42	1-696-848-1	1 CORD, POWER (AUS)	
16		1 SPRING-ELEVATION		43	1-639-237-1	1 PHONE BOARD	
17		1 WASHER-C/S		44	1-639-239-1	1 POWER BOARD (E)	
18		1 BUTTON-SPEED		44	1-639-236-1	1 POWER BOARD (EXCEPT E)	
19		1 BUTTON-REJECT		△46	1-693-159-1	1 ADAPTER, AC (E)	
20		1 LINK-REJECT		48	4-956-874-0	1 BUTTON POWER	
21		A PANEL (G) ASSY, FRONT		49	4-953-059-0	1 E RING	
22		1 LEVER, SWITCH		M1	A-4660-141-	A MOTOR ASSY	
23		1 CUSHION-MOTOR	*	SW1	1-572-746-1	1 SWITCH, LEAF	
24	4-950-433-0			SW2	1-572-744-1	1 SWITCH, PUSH (2 KEY) (SPEED)	
25	4-950-435-0			∆S₩3	1-572-744-1	1 SWITCH, PUSH (POWER)	
26		1 BUSHING-TONE ARM		∆SW4	1-572-745-1	1 VOLTAGE SELECTOR (E)	
27	4-950-437-0	1 ARM-ELEVATION		∆T1	1-450-508-1	1 TRANSFORMER, POWER	

ELECTRICAL PARTS LIST [PS-LX52]

NOTE:

The components identified by mark Δ or dotted line with mark Δ are critical for safety.

Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- –XX, –X mean standardized parts, so they may have some difference from the original
- Items marked "*" are not stocked since they are seldom required for routine service.
 Some delay should be anticipated when ordering these items.
- CAPACITORS
 MF: μF, PF: μμF

- PX, Saudi Arabia, Singapore and Malaysia models are identical to E model.
- Italian, EE, and CIS models are identical to AEP model.
- AUS: Australian model
- · EE: East European model

Ref. No.	Part No.	Description			Remark
		POWER BOARD POWER BOARD *******	(EXCEPT E)		
		< CAPACITOR	>		
C1	1-124-360-00	ELECT	$1000\mu\mathrm{F}$	20%	16V
		< DIODE >			
D1-4	8-719-200-02	DIODE 10E-2	2		
*****	******	*******	*****	******	*****

D1-4	8-719-200-02 DIODE 10E-2
*****	**************
	MISCELLANEOUS

41	1-590-871-11 CORD, CONNECTION (3 CORE)
∆ 42	1-590-836-11 CORD, POWER (E)
1 42 €	1-551-294-11 CORD, POWER (AEP)
1 42	1-696-382-11 CORD, POWER (US, Canadian)
1 42	1-696-848-11 CORD, POWER (AUS)
43	1-639-237-11 PHONE BOARD
∆ 46	1-693-159-11 ADAPTER, AC (E)
SW1	1-572-746-11 SWITCH, LEAF
SW2	1-572-744-11 SWITCH, PUSH (2 KEY) (SPEED)
∕\S₩3	1-572-744-11 SWITCH, PUSH (POWER)

	Ref. No.	Part No. D	escription	Remarks
	AS₩4		VOLTAGE SELECTOR (TRANSFORMER, POWER	
١	*****	*****	********	******
			S & PACKING MATERIA	
ı	*	4-047-532-01	SNOW BOX (L)	
	*		SNOW BOX (R)	
	*	4-956-071-01	INDIVIDUAL CARTON	
		3-756-211-11	MANUAL, INSTRUCTION	V (English, French,
			Spanish, Port	uguese) (AEP, Canadian)
		3-756-211-21	MANUAL, INSTRUCTION	V (English)(US)
		3-756-211-41		N (German, Dutch, Swedish, Italian)(AEP)
		3-756-211-51	MANUAL, INSTRUCTION	W (English, French, anish, Chinese) (E, AUS)
		3-756-211-61	MANUAL, INSTRUCTIO	N (English, German,
				lish, Russian) (EE, CIS)
	*****	********	*******	*******
			HARDWARE LIST	
	#1	7-685-246-19		TYPE2 NON-SLIT
	#2	7-685-903-21	SCREW +PTPWH 3X8	TYPE2

7-685-104-11 SCREW +P 2X6 TYPE2 NON-SLIT

#3

#4

7-685-546-19 SCREW

EXPLODED VIEW [PS-LX52P]

NOTE:

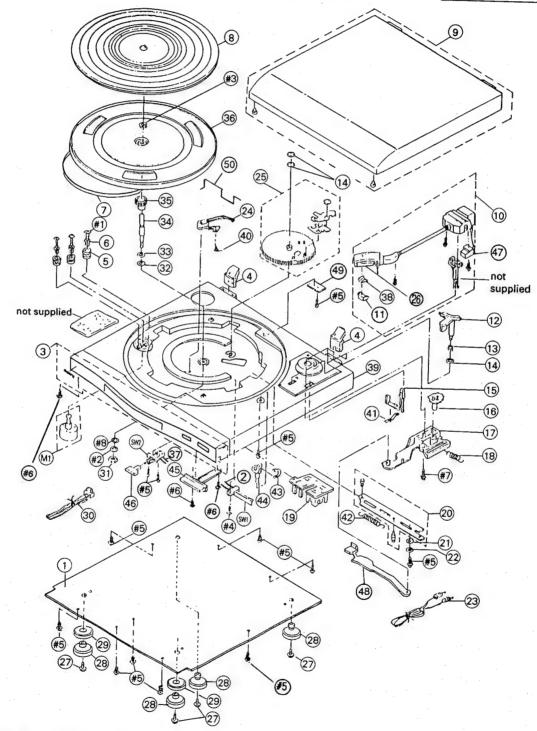
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

 Screw(# mark) list is given in the last of this parts list.

The components identified by $\max \Delta$ or dotted line with $\max \Delta$ are critical for safety.

Replace only with part number specified.

Remarks



Ref. No.	Part No.	Description		Remarks	Ref. No.	Part No.	Description
2 3 4	1-696-144-11 A-4660-303-A 4-947-476-01	BOTTOM BOARD WIRE (45) RED PANEL (G) ASSY, F HINGE CUSHION, MOTOR	FRONT		7 8	4-947-504-01 4-947-503-01 A-4674-087-A A-4604-946-A	COLLAR

Ref. No.	Part No.	Description	Remarks	Re:	f. No.	Part No.	Description	Remarks
10	A-4604-940-A	ARM ASSY, TONE			30	1-557-109-21	DC CORD	
11	4-948-095-01	COVER CARTRIDGE			31	4-947-510-01	NUT	
12	4-947-466-01	TONE ARM ELEVATOR			32	3-451-162-00	WASHER (56)	
13	4-947-467-01	SPRING (6)			33	3-701-445-21	WASHER	
14	4-947-514-01				34	4-947-498-01	STELL BALL	
15	4-947-468-01	LEVER, CUEING			35	4-947-497-01	GEAR	
16	4-947-470-01	•	•	i	36		TURNTABLE PLATTER	
* 17		LINK, RETURN			37		WIRE (30) (WHT)	
18		SPRING (9-1)			38		STYLUS (CN234)	
19	4-956-998-01			,	39		MAIN CABINET (G)	
20	A-4660-302-A	LEVER RETURN ASSY			40	4-947-496-01	SPRING (34)	
21	3-659-350-00				41		CUEING (BASE)	
22	4-890-173-00	WASHER			42	4-947-485-01		
23	1-555-116-11	PHONO CORD		1	43	4-947-490-01		
					44	4-947-491-01		
24	4-947-495-01	WIPER REJECT						
25	A-4604-916-A	GEAR ASSY, SPUR			45	4-956-997-01	KNOB REJECT	
26	1-251-028-11	CARTRIDGE (MAIN)			46	4-956-996-01	KNOB SPEED	
27	4-950-497-01	FOOT SEAT			47	4-947-464-01	COUNTER WEIGHT	
28	4-950-490-01	PLASTIC STAND		*	48	4-947-487-01	RETURN LINK	
29	4-950-489-01	FOOT RING			49	1-644-410-11	P. C BOARD	
					50	4-948-101-01	SPRING (38)	•

ELECTRICAL PARTS LIST [PS-LX52P]

NOTE:

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

When indicating parts by reference number, please include the board name.

 Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service.
 Some delay should be anticipated when ordering these items.

used o	n the set.		
Ref. No.	Part No.	Description	Remarks
23	1-555-116-11	PHONO CORD	
30	1-557-109-21	DC CORD	
* 49	1-644-410-11	P. C BOARD	
M1	A-4604-945-A	MOTOR ASSY	
SW1	1-570-666-11	SWITCH (MOTOR)	
SW2	1-571-089-11	PUSH SWITCH (SPEED)	
******	*******	*******	******
	ACCESSORIE	S & PACKING MATERIALS	
	*******	********	
*	4-947-532-01	SNOW BOX (L)	
*	4-947-533-01	SNOW BOX (R)	
*	4-957-002-01	CARTON	

Re	ef. No.	Part No.	Description	Remarks
			HARDWARE LIST	
	#1	7-621-773-87	SCREW +B 2.6X10	
	#2	7-623-210-22	SW4, TYPE 2	
	#3	7-624-110-04	STOP RING 6.0, TYPE-E	
	#4	7-685-105-19	SCREW +P 2X8 TYPE 2 NON-SLIT	
	#5	7-685-647-79	SCREW +BVTP 3X10 TYPE 2 IT-3	
	#6	7-685-646-79	SCREW +BVTP 3X8 TYPE 2 IT-3	
	#7	7-685-645-79	SCREW +BVTP 3X6 TYPE 2 IT-3	
	#8	7-688-005-01	W5, SMALL	

HTC-D209/D309

SERVICE MANUAL



AEP Model **UK Model** E Model Australian Model

HTC-D209 is the compact disc deck in LBT-A27CD / A27CDK / D209CD. HTC-D309 is the compact disc deck in LBT-A37CD / A37CDK / D309CD.

Photo: HTC-D209

SPECIFICATIONS

Cassette deck

Recording system Frequency response 4-track 2-channel stereo DOLBY NR OFF

With Type II cassette (Sony UX-S) 40 Hz to 14 kHz (±3 dB) With Type I cassette (Sony HF-S) 40 Hz to 13 kHz (±3 dB)

W.PEAK ±0.2% (DIN)

Wow and flutter

Compact disc player

Laser

Laser output

Semiconducotr laser ($\lambda = 780 \text{ nm}$)

Max, 44.6 μW*

 This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.

Frequency response Signal-to-noise ratio

Dynamic range Harmonic distortion Channel separation

More than 90 dB (1 kHz)

Mass Dimensions

2 Hz to 20 kHz \pm 0.5 dB More than 93 dB More than 90 dB Less than 0.008% (1 kHz)

Approx. 5.1 kg

Approx. $355 \times 225 \times 305$ mm (w/h/d, including projections)

	Li Similar M		HCD-D109
CD	Model Name Using Similar M		BU-5BD1
Section	Base Unit Name		HCD-H170/H170K
	Model Name Using Similar M	lechanism	/H700
DECK		A	TCM-190RA12CL
Section	Tape Transport Mechanism	DECK B	1000
	Туре	DECK B	110111
1			

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.





This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CLASS 1 LASER PRODUCT LUOKAN 1 LASERLAITE KLASS 1 LASERAPPARAT

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

The following caution label is located inside the unit.

CAUTION	: INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM
ADVARSEL	USYNLIG LASERSTRALING VED ABNING NAR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGÅ UDSÆTTELSE FOR STRÅLING
VARO!	: AVATTAESSA JA SUOJALUKITUS OHITETTAESSA DLET ALTTIINA LASERSATEILYLLE
VARNING	: LASERSTRALING NAF DENNA DEL AR OPPNAD OCH SPARREN AR URXOPPLAD
ADVARSEL	: USYNLIG LASERSTRÄLING NÄR DEKSEL ÄPNES UNNGÅ EKSPONERING FOR STRÄLEN

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 30 cm away from the objective lens.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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MODEL IDENTIFICATION

Back Panel

4-955-819-01: HTC-D209 AEP, UK, Italian, Germany Mdels. 4-955-819-11: HTC-D209 E, East European, Malaysia,

Singapore Models.

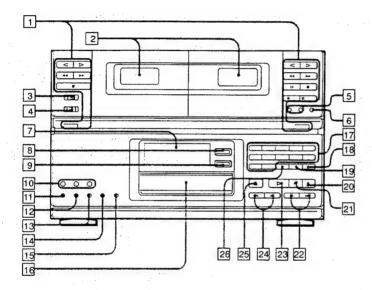
4-955-819-21: HTC-D209 Saudi Arabia, Australian Models. 4-955-819-31: HTC-D309 AEP, UK, Italian, Germany Models.

4-955-819-41: HTC-D309 E, East European, Malaysia,

Singapore, CIS Models.

4-955-819-51: HTC-D309 Saudi Arabia, Australian Models.

SECTION 1 GENERAL



Location of Controls

Cassette Deck

- Tape operation buttons
 ✓ Leftward fast winding/AMS*
 - ►► Rightward fast winding/AMS*
 - Forward play
 - Reverse play
 - Stop
 - **▲** EJECT
 - PAUSE (deck B only)
 - O REC MUTE (record muting) (deck B only)
 - REC (record) (deck B only)
- 2 Cassette holders
- 3 DOLBY NR (noise reduction) switch (32, 80)
- 4 DIRECTION MODE selector (28, 32, 38, 80)
- 5 DUBBING SPEED (HIGH/NORMAL) button (38, 40)
- 6 CD SYNCHRO button (80, 84)

Compact Disc Player

- 7 Display window
- B EDIT/TIME FADE button (86, 88, 94)
- 9 TIME SET button (86, 94)
- 10 PLAY MODE buttons PROGRAM button (54) SHUFFLE button (50, 52) CONTINUE button (52)
- 11 MUSIC SCAN button (58)
- 12 A.SPACE/A.CUE (auto space/auto cue) button (48, 96)
- 13 TIME button (44)
- 14 REPEAT button (60) 15 FADER button (92) 16 Disc tray

- Numeric buttons (46, 52)
- 18 CLEAR (program clear) button (56)
 19 CHECK (program check) button (56)

- (stop) button (42)

 If (pause) button (42)

 A/>
 (manual search) buttons (46)
- 23 ► (play) button (42)
- 24 144/▶► (AMS*) buttons (46)
- 25 OPEN/CLOSE ♠ button (42)
 26 > 12 (over 12) button (46)
- * AMS is the abbreviation of Automatic Music Sensor.

SECTION 2 ADJUSTMENTS

2-1. MECHANICAL ADJUSTMENTS

Precautions:

 Clean the following parts with a denatured-alcoholmoistened swab;

record/playback/erase head

pinch roller

rubber belts

capstan

idler

Demagnetize the record/playback head with a head demagnetizer.

(Head demagnetizer do not approach for the erase head.)

- 3. Do not use a magnetized screwdriver for the adjustments.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed in the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
FWD	CQ-102C	35 to 60g · cm (0.49 to 0.83 oz · inch)
FWD Back tension	CQ-102C	2 to 6g·cm (0.03 to 0.08 oz·inch)
REV	CQ-102RC	35 to 60g * cm (0.49 to 0.83 oz * inch)
REV Back tension	CQ-102RC	2 to 6g·cm (0.03 to 0.08 oz·inch)
FF, REW	CQ-201B	70 to 110g · cm (0.98 to 1.52 oz · inch)

2-2. ELECTRICAL ADJUSTMENTS

0 dB=0.775 V (AF)

Precautions:

CASSETTE DECK SECTION

- Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
- 2. Do not use a magnetized screwdriver for the adjustments.
- 3. After the adjustments, apply suitable locking compound to the parts adjusted.
- 1. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
- 5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
- The adjustments should be performed for both L-CH and R-CH.
- Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch:

OFF

TAPE:

TYPE I

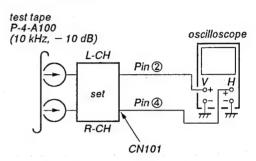
Type	Signal	Used for
P-4-A100	6.3kHz, -10dB	Azimath Adjustment
P-4-L300	315Hz, 0dB	PB Level Adjustment
WS 48B	3kHz, ÓdB	Tape Speed Adjustment

Record/Playback Head Azimuth Adjustment

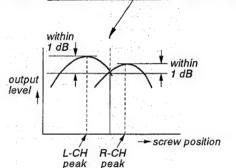
Note: Perform this adjustments for both decks.

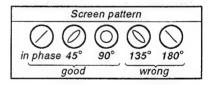
Procedure:

1. Mode: FWD playback



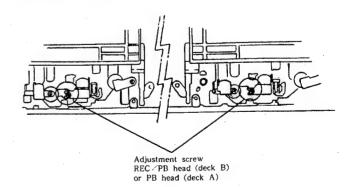
2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak,





3. After the adjustments, apply suitable locking compound to the parts adjusted,

Adjustment Location:

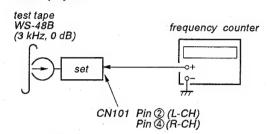


Tape Speed Adjustment.

DECK A DECK B

Mode: playback

Procedure :

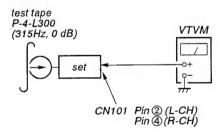


- High speed adjustment (Must be first Adjustment B deck)
- 1. Push HIGH speed button.
- 2. Adjust RV71 so that the frequency counter reads $6,000 \pm 30 Hz$
- NORMAL speed adjustment
 - 1. Push NORMAL speed button.
 - 2. Adjust RV72 so that the frequency counter reads $3,000 \pm 15$ Hz.

(See right for Adjusting Parts Location)

Frequency difference between deck A and deck B the beginning of the tape should be within 1%.

Playback Level Adjustment DECK A DECK B Procedure :



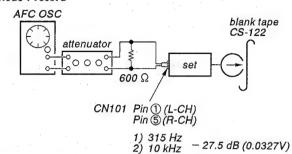
Mode: FWD playback DECK-A side RV11 (L-CH), RV21 (R-CH) DECK-B side RV11 (L-CH), RV21 (R-CH) so that the limits below are satisfied,

Adjustable limits:

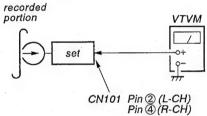
CN101 level : -7.7 ± 0.5 dB (0.301 -0.338) level difference between the channels: within 1.0dB (See right for Adjusting Parts Location)

Record BIAS Current Adjustment DECK B Procedure:

1. Mode: record



2. Mode: Playback



Playback the signal recorder in step 1. Confirm that the 10kHz playback output is 0±0.5dB relative to the 315Hz output, If necessary, adjust RV12 (L-CH), RV22 (R-CH) and repeat the steps given above.

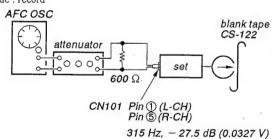
(See right for Adjusting Parts Location)

Record Level Adjustment DECK B Setting:

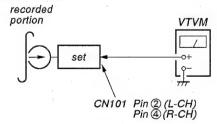
TAPE: TYPE I

Procedure:

1. Mode: record



2. Mode: playback

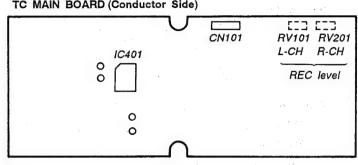


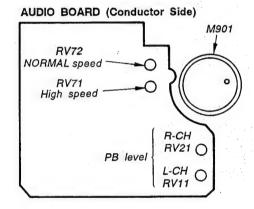
3. Playback the signal recorded in step 1. Confirm that the signal level is within the adjustment limits below. If necessary, adjust RV101 (L-CH), RV201 (R-CH) and repeat the step 1-3.

Adjustable limits: $-27.5 \pm 0.5 \, dB \, (0.0309 - 0.0346)$ (See right for Adjusting Parts Location)

• Adjusting Parts Location

TC MAIN BOARD (Conductor Side)



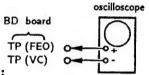


CD SECTION

Note:

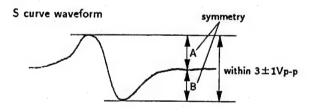
- 1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
- 2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
- 3. Use the oscilloscope with more than $10M\Omega$ impedance.
- 4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S Curve Check



Procedure:

- 1. Connect oscilloscope to test point TP (FEO) on BD board.
- 2. Connect between test point TP (FES) and TP (VC) by lead wire.
- 3. Turned Power switch on and actuate the focus serch. (actuate the focus serch when disc table is moving in and out.)
- 4. Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within 3±1Vp-p.

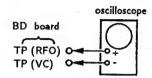


5. After check, remove the lead wire connected in step 2.

Note: • Try to mesure several times to make sure that the ratio of A: B or B: A is more than 10:7.

• Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check



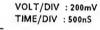
Procedure:

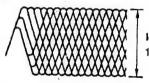
- 1. Connect oscilloscope to test point TP (RFO) on BD board.
- 2. Turn Power switch on.
- 3. Put disc (YEDS-18) in and playback.
- 4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note:

Clear RF signal waveform means that the shape "\$\langle\$" can be clearly distinguished at the center of the waveform.

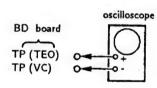
RF signal waveform





level : 1.2 ±0.25 Vp-p

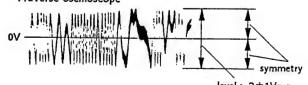
E-F Balance Check



Procedure:

- 1. Connect test point TP (ADJ) to ground and TP (TES) to TP (VC) with lead wire.
- Connect oscilloscope to test point TP (TEO) on BD board.
- 3. Turn Power switch on.
- 4. Put disc (YEDS-18) in and playback.
- 5. Confirm that the osilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

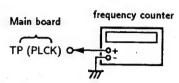
Traverse oscilloscope



6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check Procedure:

1. Connect frequency counter to test point (PLCK) with lead wire.



- 2. Turn Power switch on.
- Confirm that reading on frequency counter is
 3218MHz.

Focus/Tracking Gain

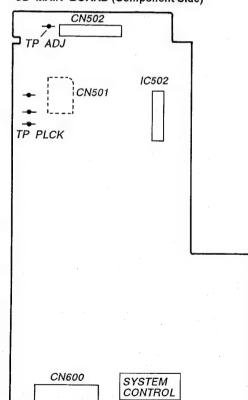
This gain has a margin, so even if it is slightly off. There is no problem.

Therefore, do not perform, this adjustment.

Please note that it should be fixed to mechanical center position when you moved and do not know original position.

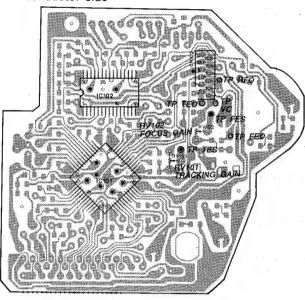
Adjustment Location;

CD MAIN BOARD (Component Side)



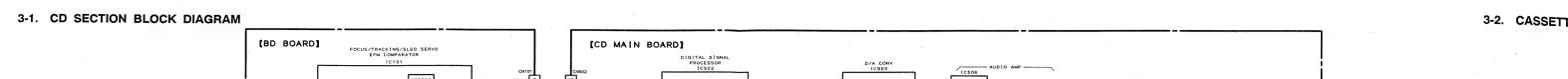
Adjustment Locations: [BD board]

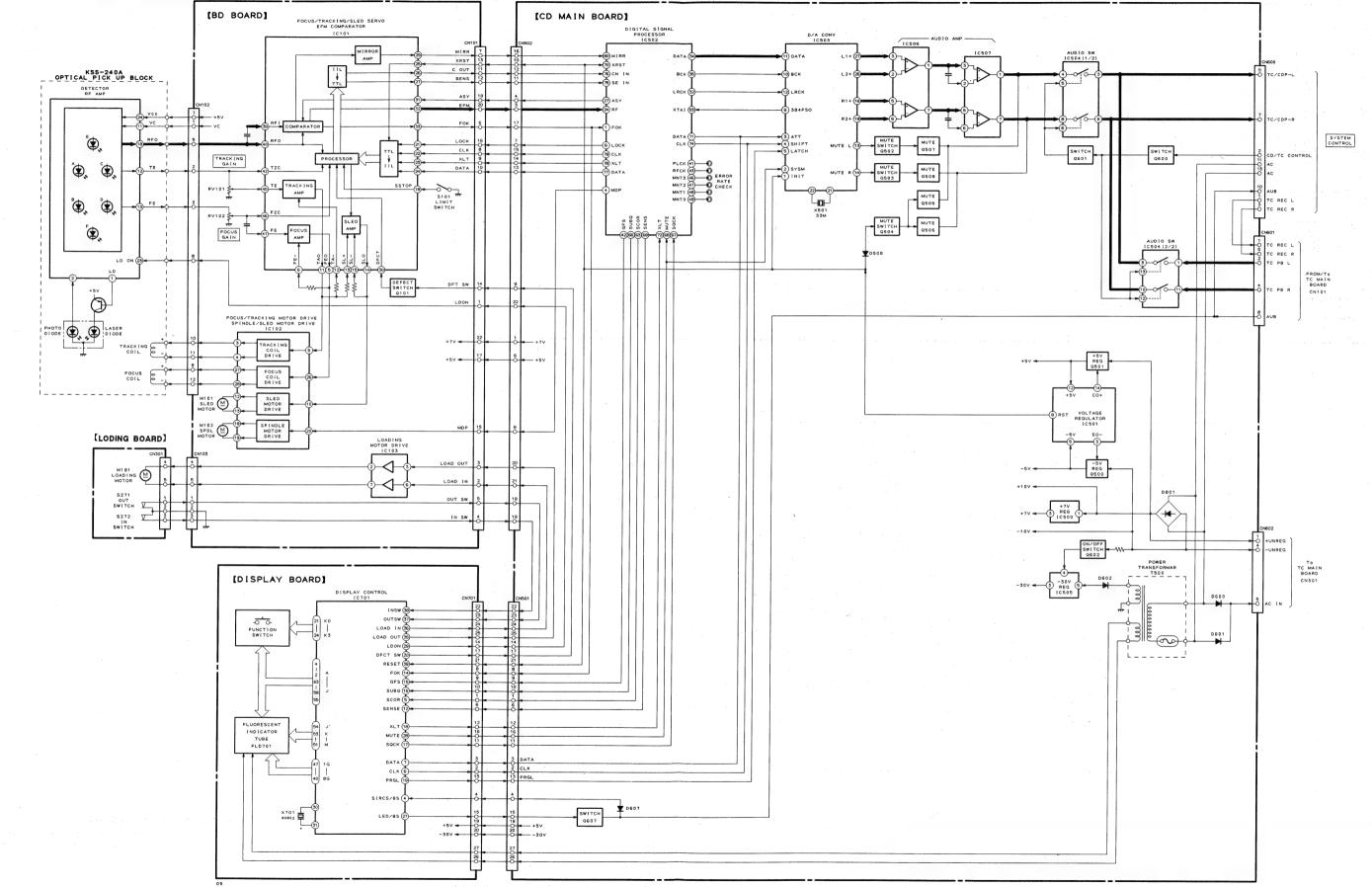
- conductor side -



SECTION 3 DIAGRAMS

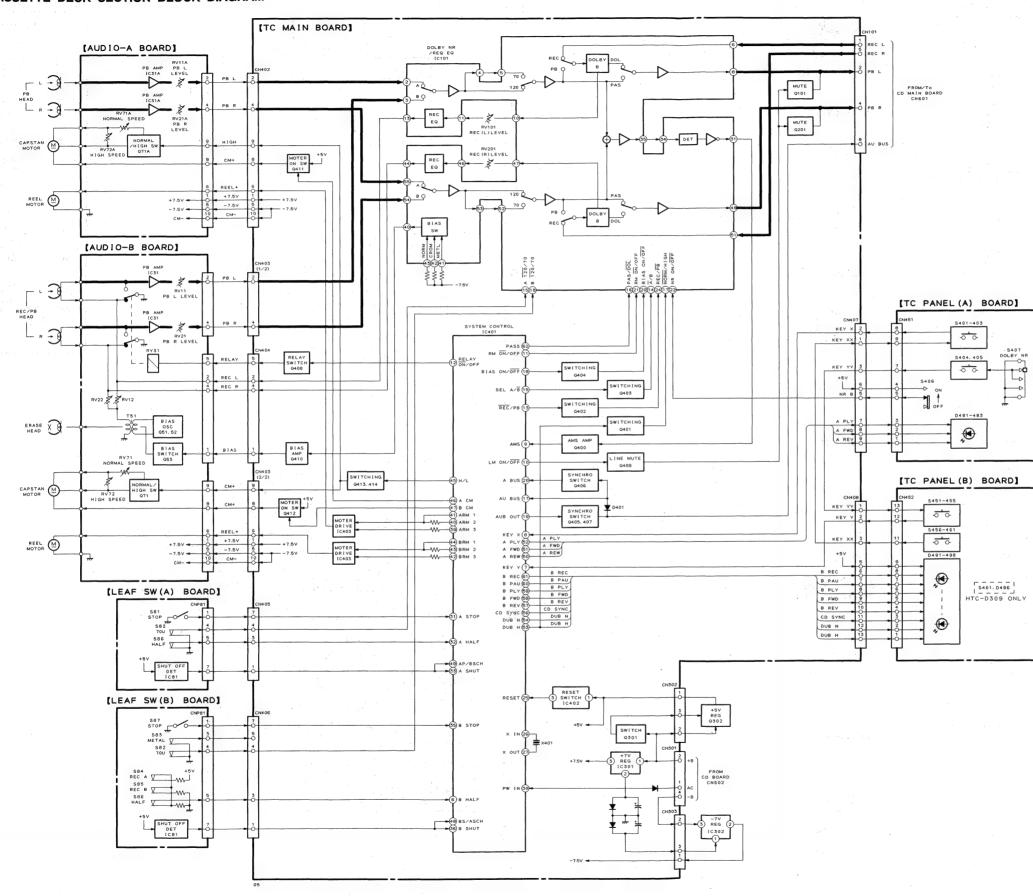
-9-

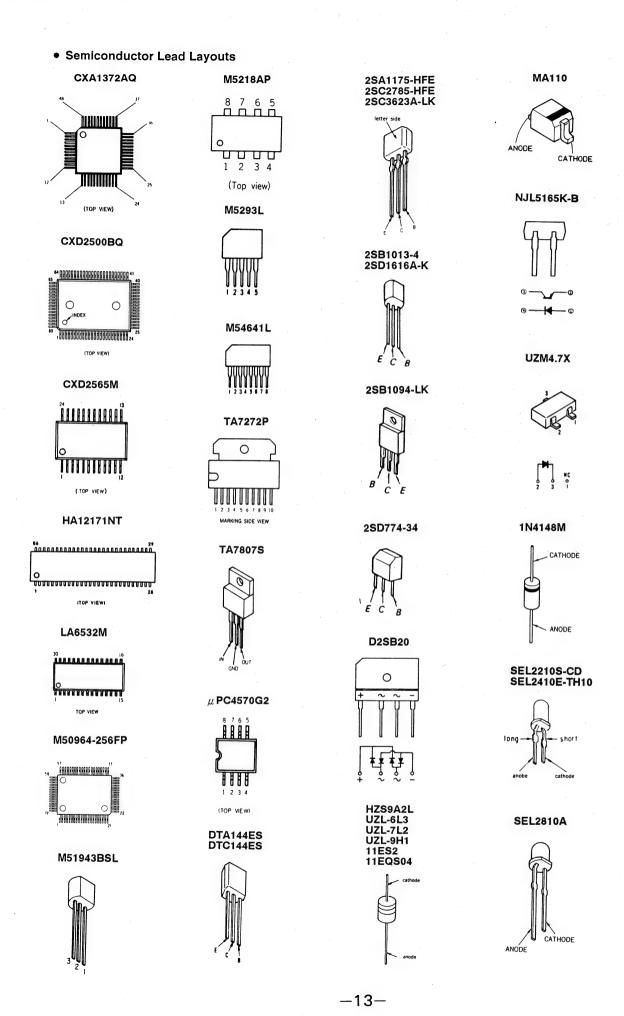




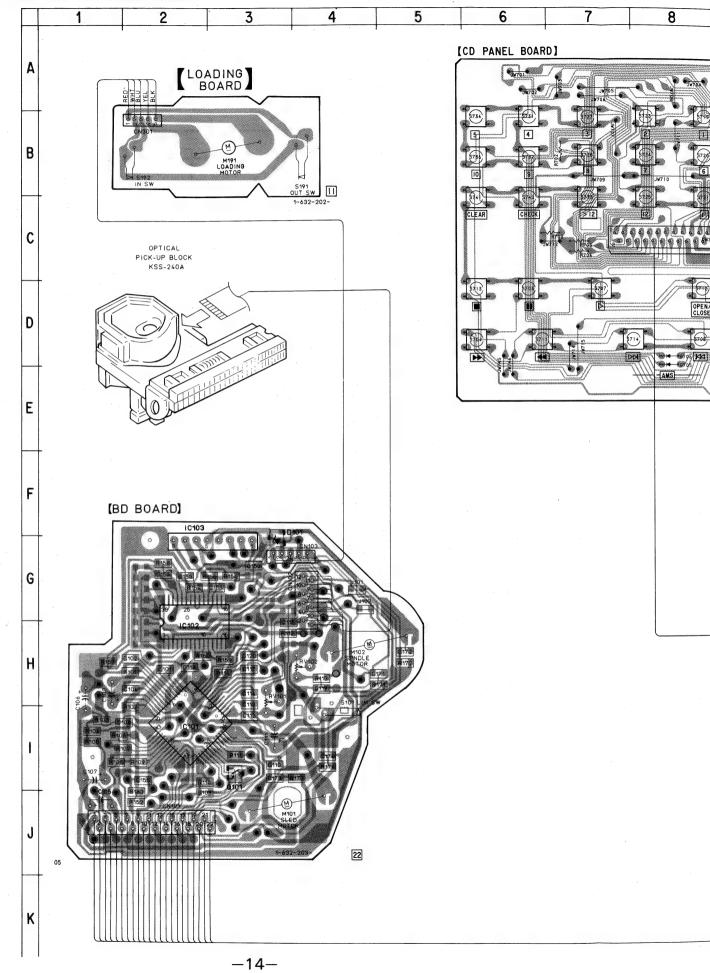
-10-

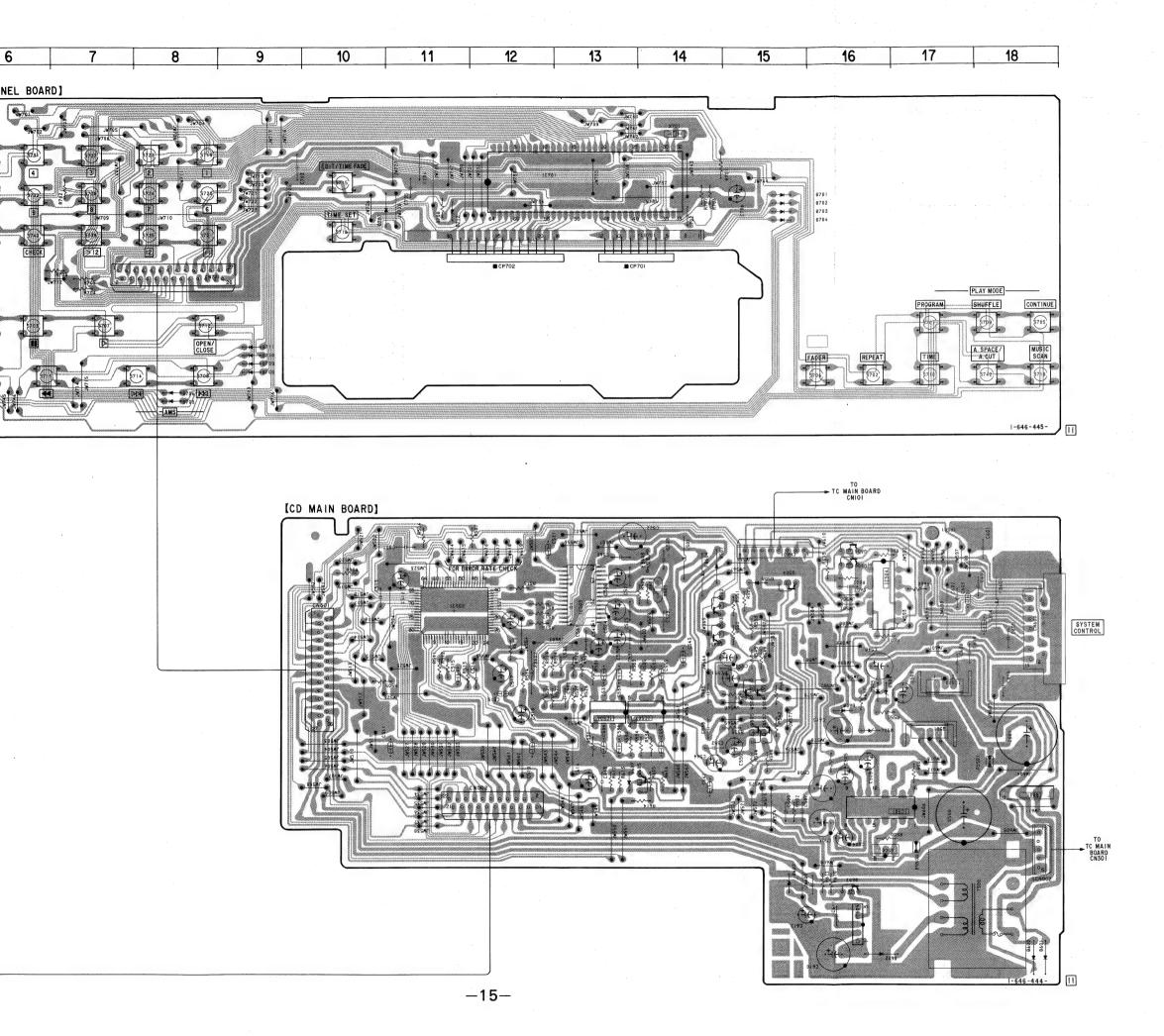
3-2. CASSETTE DECK SECTION BLOCK DIAGRAM





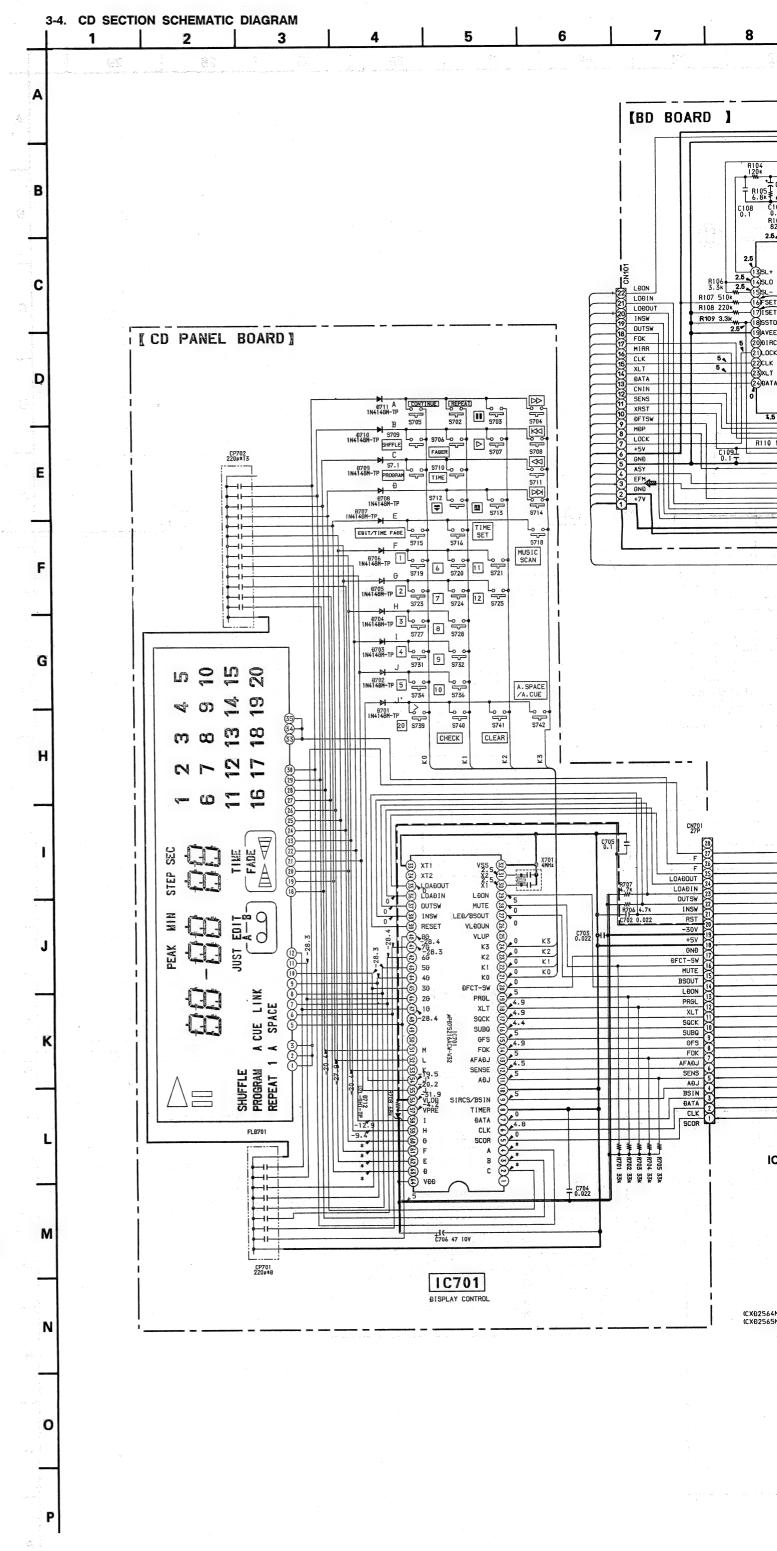
3-3. CD SECTION PRINTED WIRING BOARDS





Note on Printed Wiring Board:

- parts extracted from the component side.
 Rattern from the side which enables seeing.
 Rattern of the rear side.



Semiconductor

Locatio	n	
Ref. No.	Location	
D101 D504 D505 D506 D507 D508 D600 D601 D602 D603 D607 D608 D701 D702 D703 D704 D705 D706 D707 D708 D709 D711 D711 D712 D801	GHHHFGKKKJIHBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	
IC101 IC102 IC103 IC500 IC501 IC502 IC503 IC504 IC505 IC506 IC507 IC701	I-2 H-2 G-2 H-17 I-16 G-13 G-16 K-16 H-13 H-14 B-13	
Q101 Q500 Q501 Q502 Q503 Q504 Q505 Q506 Q507 Q508 Q600 Q601 Q602	I-3 J-16 H-17 G-14 G-15 H-15 H-15 H-15 F-16 J-16	

Note on Schematic Diagram:

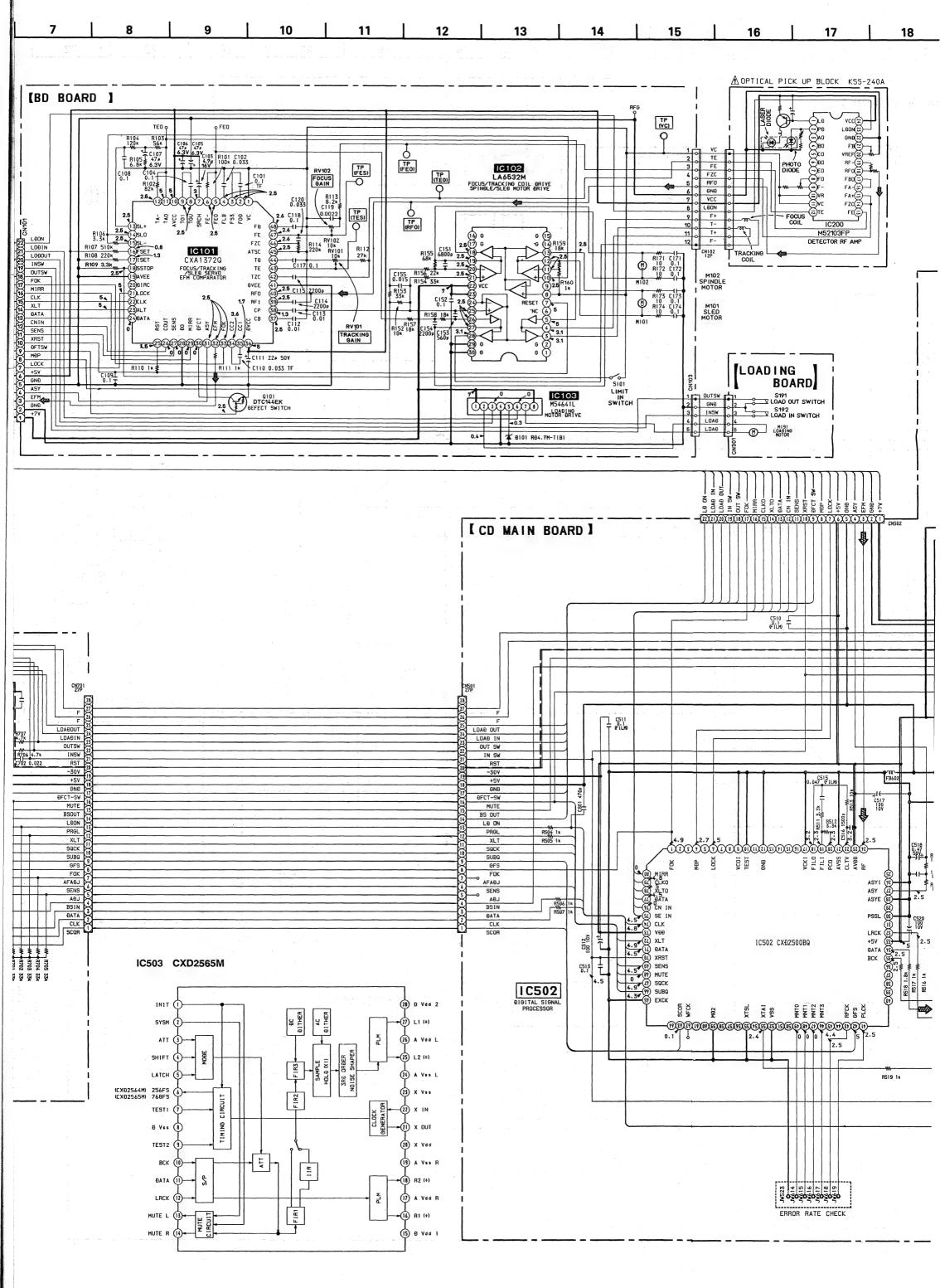
1-14

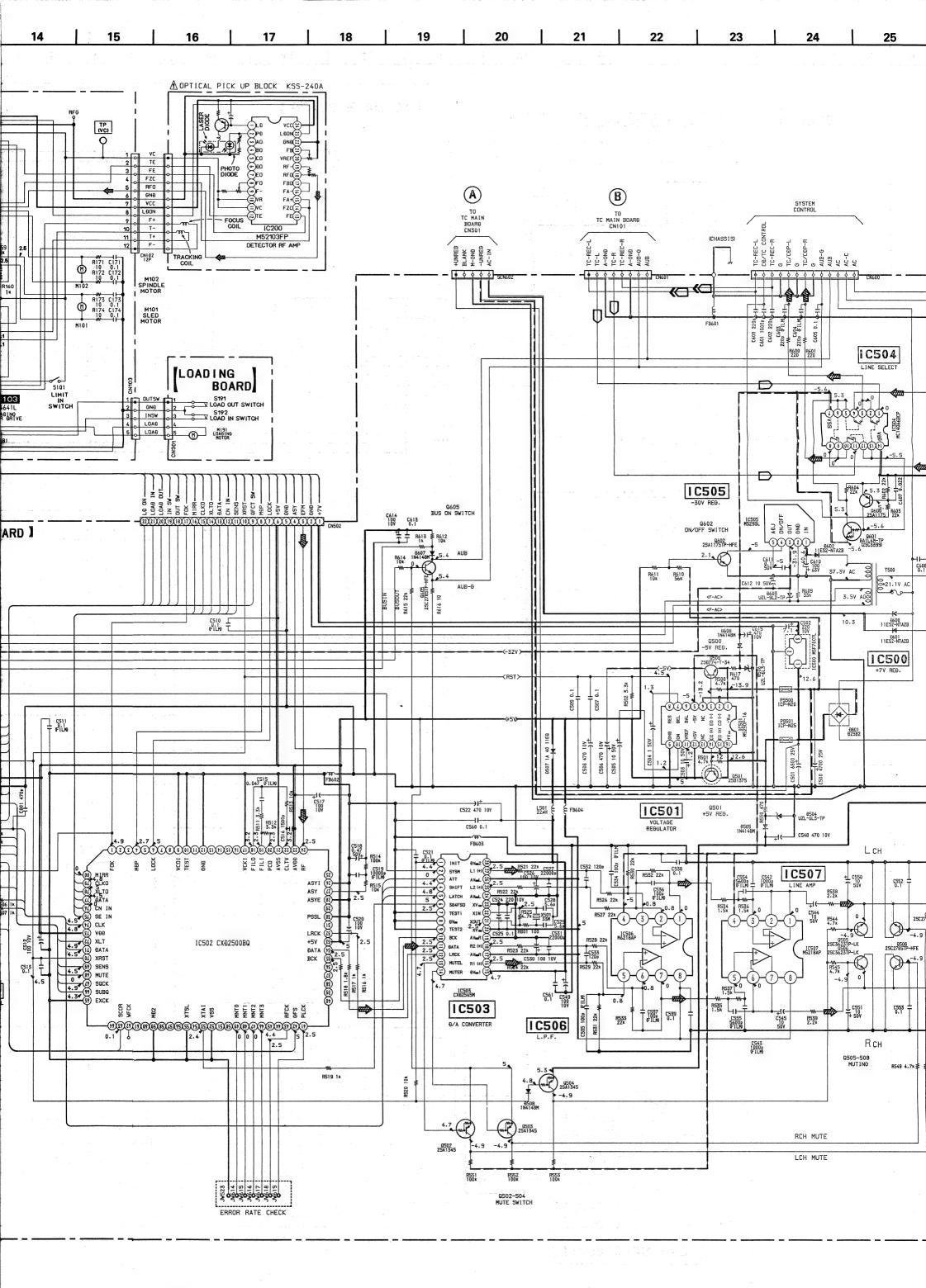
Q605

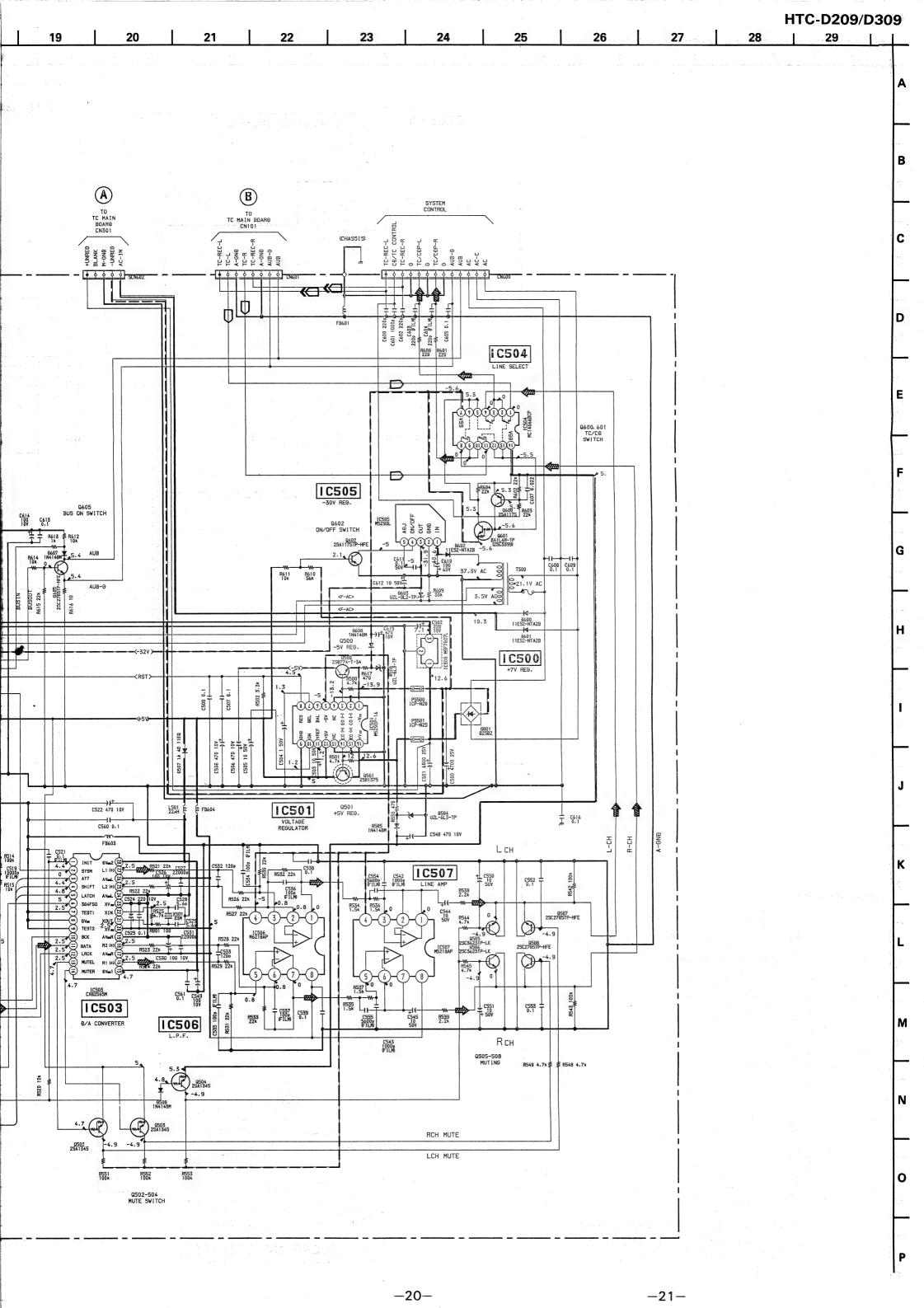
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics. and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.

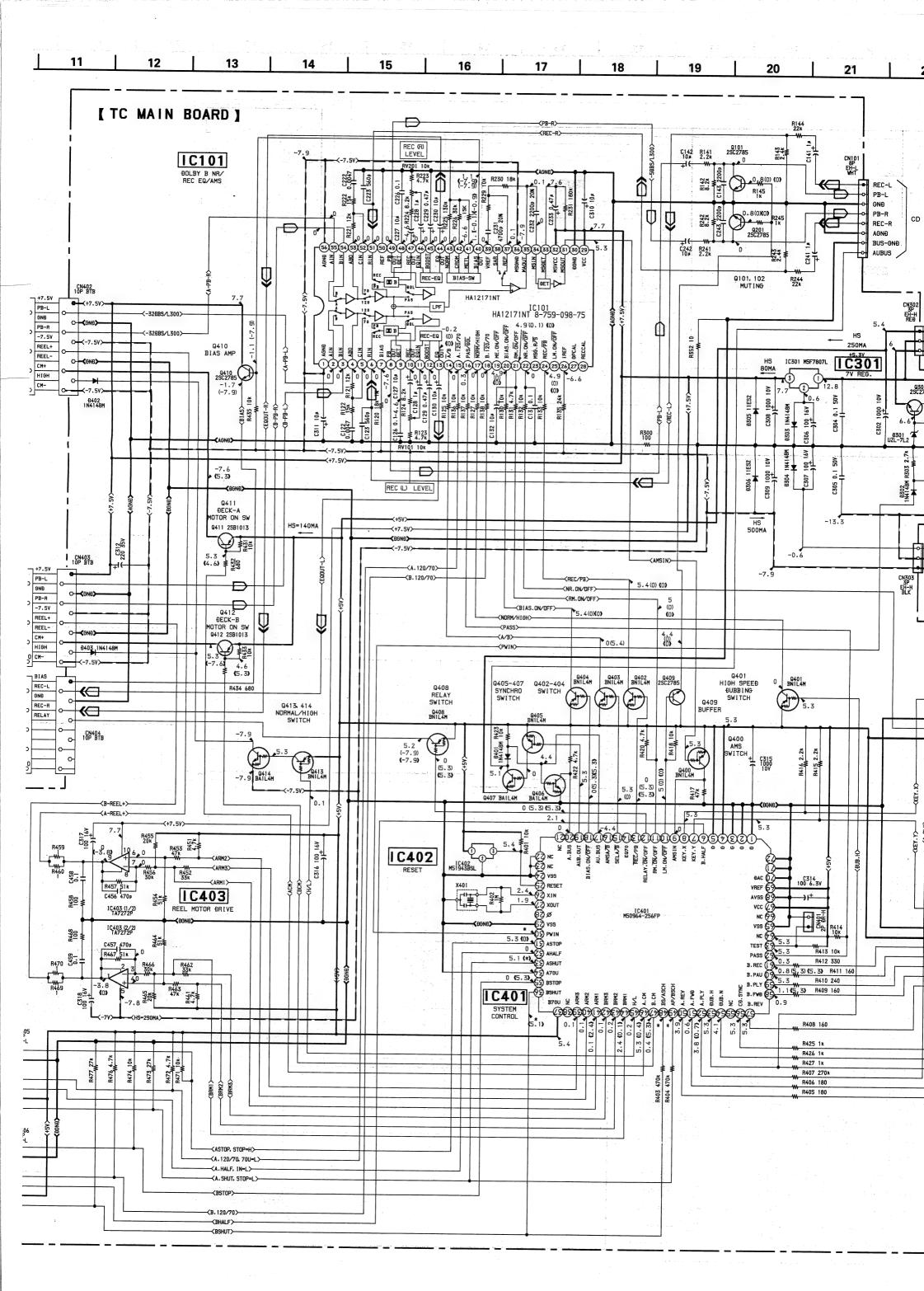
Note: The components identified by mark A or dotted line with mark $\underline{\Lambda}$ are critical for safety. Replace only with part number specified.

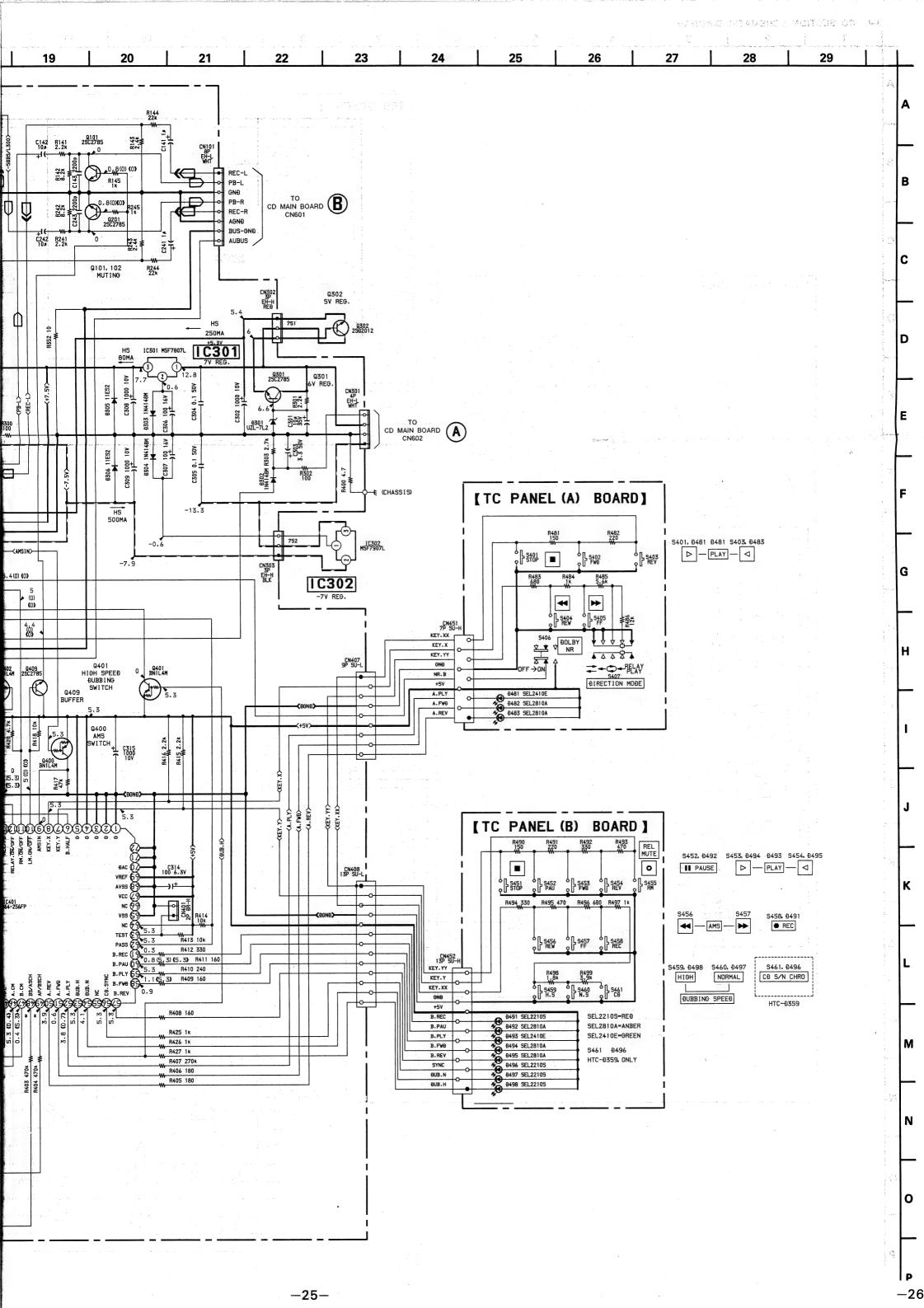
- : B + Line.
- ---: B Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
 - no mark :CD PLAY (COMMON)):DECK A PB
 - ≪ ≫:DECK B PB
- Voltages are taken with a VOM (10 M Ω /V). Voltage variations may be noted due to normal production
- tolerances.
- Signal path.
 - ⇒ : CD
 - : PB (DECK B) : REC (DECK B)

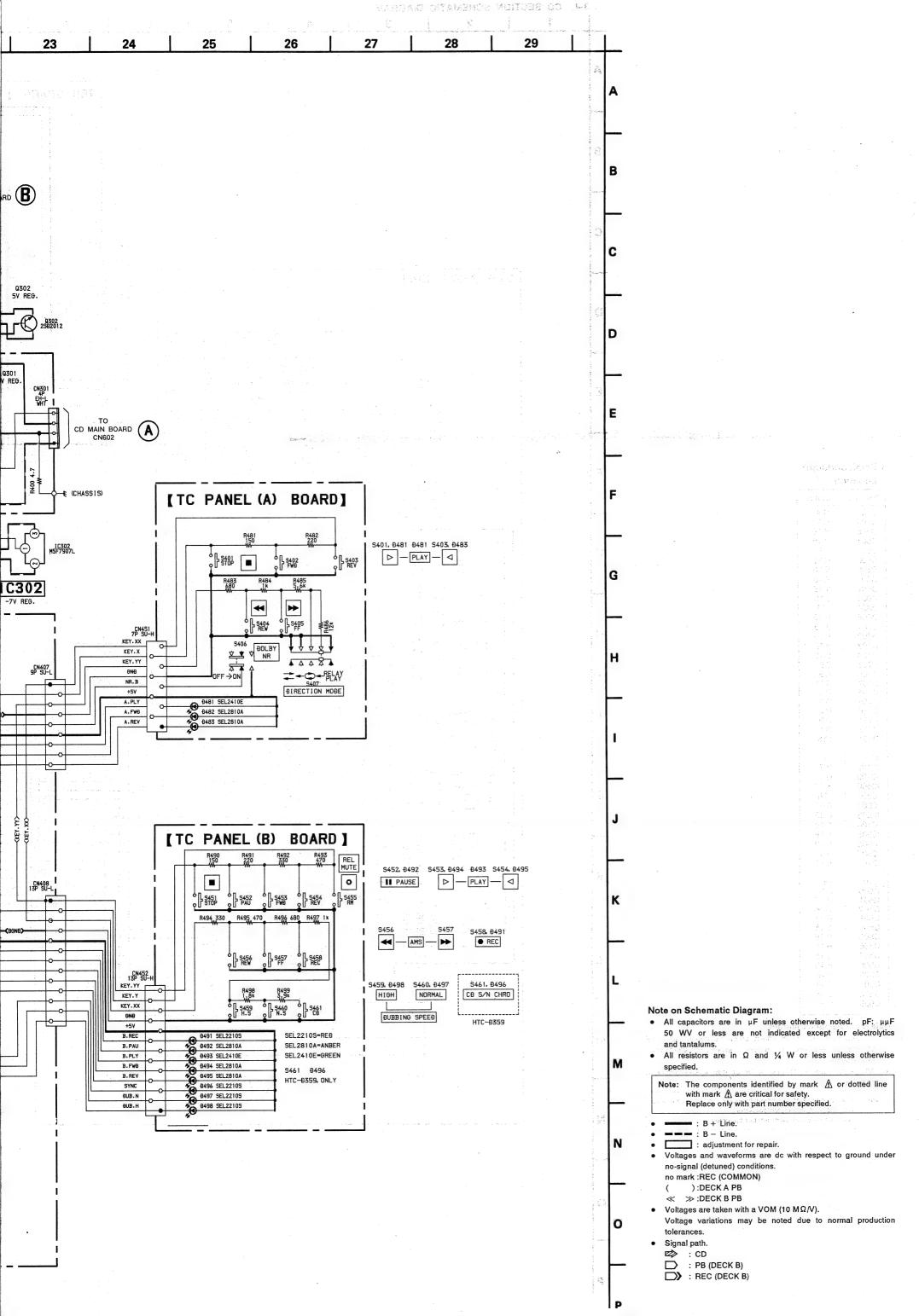




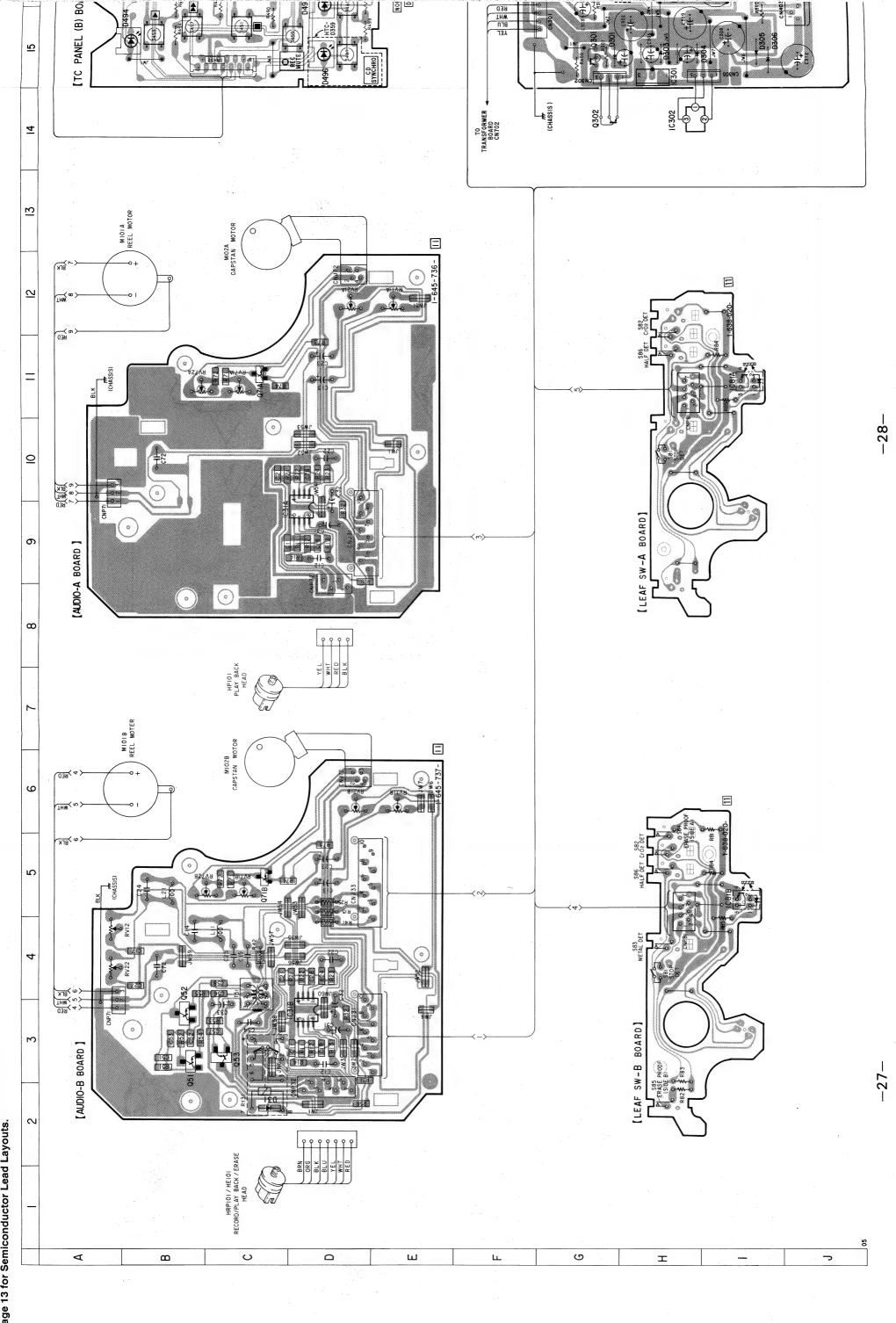








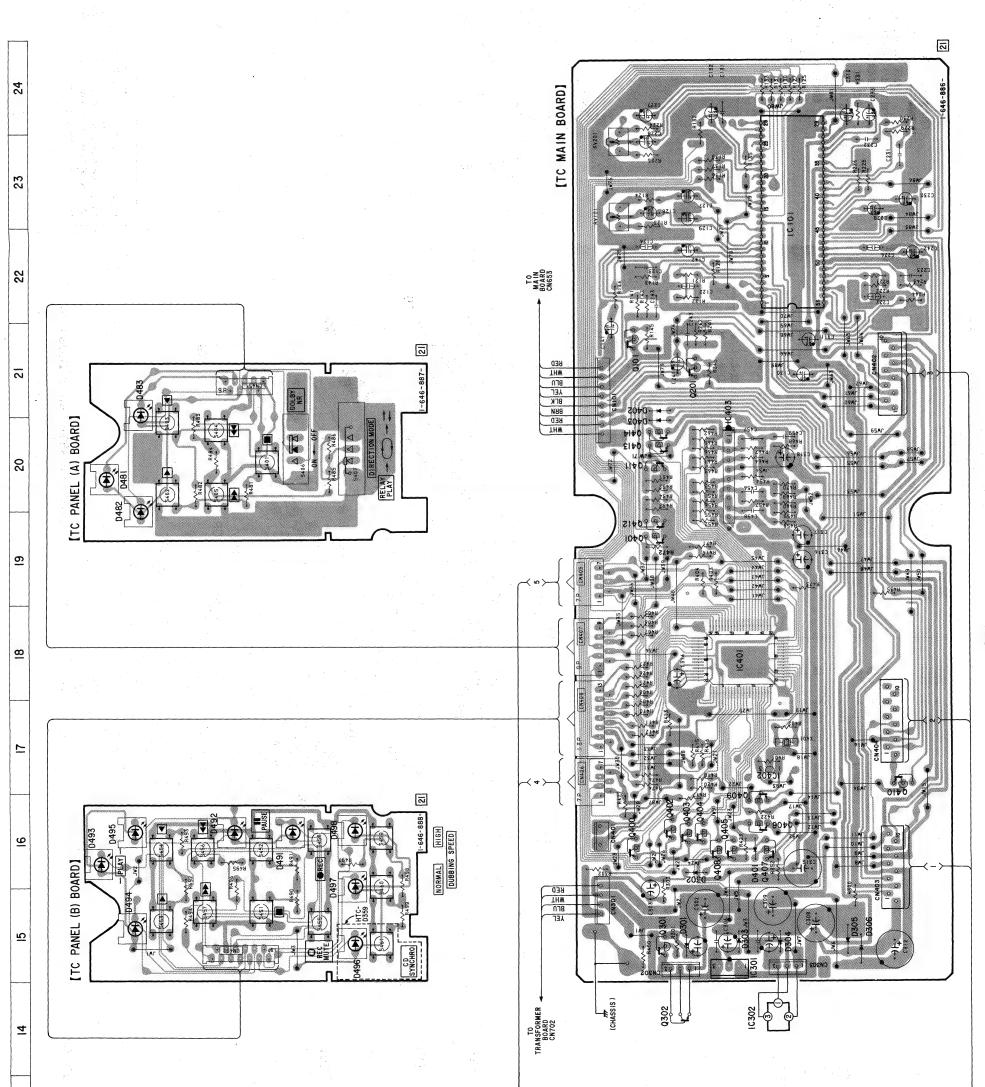
-26-



3-6. CASSETTE DECK SECTION PRINTED WIRING BOARDS• See page 13 for Semiconductor Lead Layouts.

Semiconductor
 Location

			<u> </u>	
Location	C-2 G-15 H-16 H-15 H-15 H-15 G-21 G-20 G-20 G-20 G-20 G-20 G-20 G-16 G-16 D-16 D-16	0-9 0-3 1-22 1-15 1-14 1-14 1-17	6-16 6-16 6-16 6-16 6-16 6-16 6-16	7 + + + + + + + + + + + + + + + + + + +
Ref. No.	D31 D302 D303 D303 D303 D304 D305 D401 D481 D482 D492 D493 D493 D494 D495 D496 D496	C31A C31B C101 C301 C302 C401 C402	052 052 053 0714 07118 0101 0201 0302 0400 0401	0404 0405 0406 0408 0409 0411 0412 0413



SECTION 4

EXPLODED VIEWS

- -XX and -X mean standardized parts, so they may have some difference from the original
- Color Indication of Appearance Parts Example: KNOB, BALANCE (WHITE) . . . (RED)
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 - parts with no reference exploded views are not The mechanical properties in the esupplied.
- Hardware (# mark) list is given in the last of this parts list.

Parts Color Cabinet's Color

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

CD

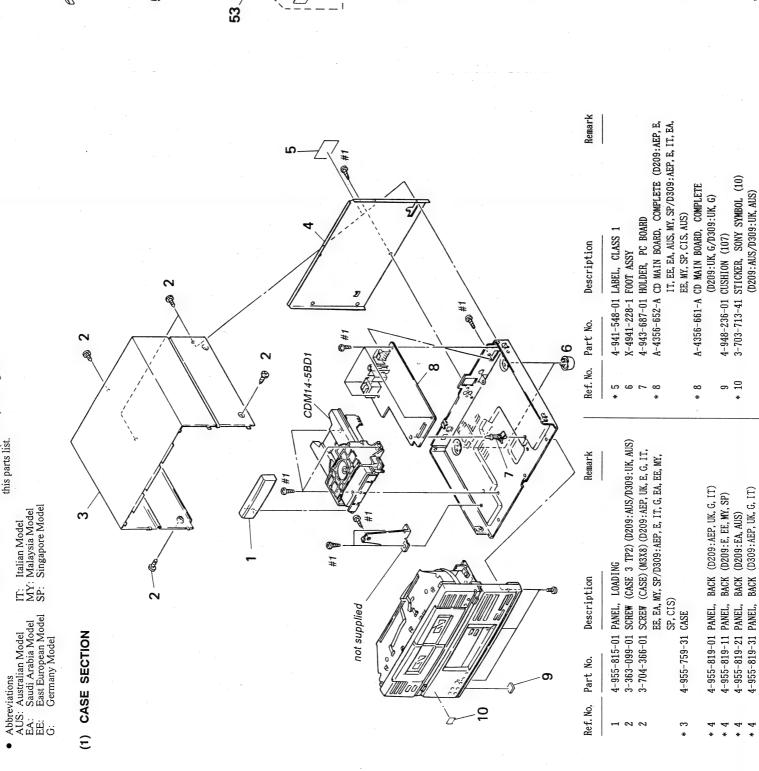
ල

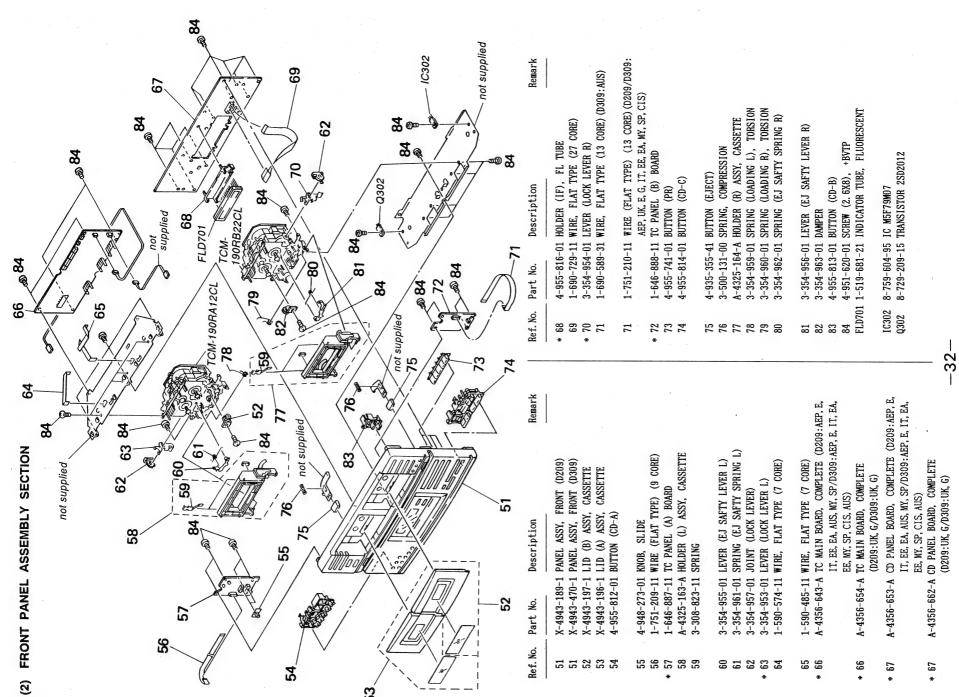
159

158,

157

156





155

Ref. No.

* 151 * 152 * 153 154 155

156 157 158

-31

BACK (D309:E, EE, MY, SP, CIS) BACK (D309:EA, AUS)

4-955-819-41 PANEL, 4-955-819-51 PANEL,

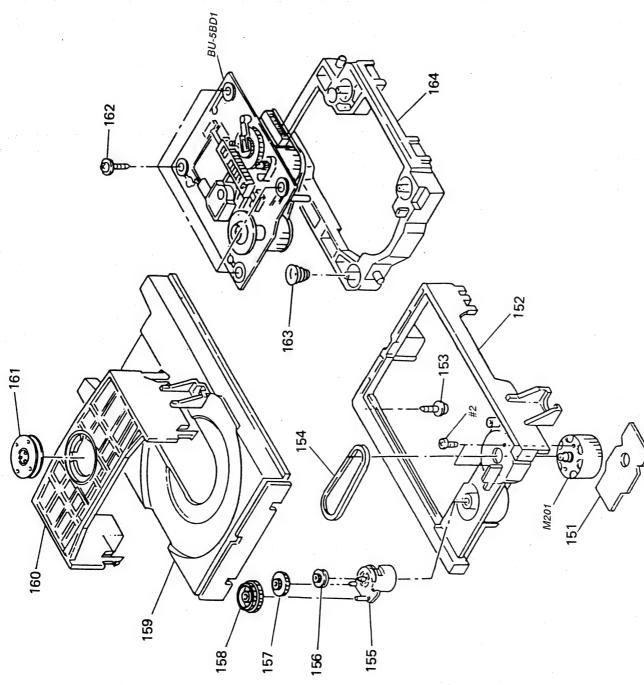
(3) CD MECHANISM SECTION (CDM14-5BD1)

28@

29

69

(4) OPTICAL PICK-UP BLOCK ASSEMBLY (BU-5BD1)



- not supplied

Remark

RE) (D209/D309: SP, CIS)

(D309:AUS)

10302

	æ	MOTO
202	Description	4-917-564-01 GEAR (P), FLATNESS A-4617-371-A BD BOARD, COMPLETE 1-572-085-11 SWITCH, LEAF (LIMIT IN) X-4917-504-1 MOTOR ASSY (SLED) X-4917-523-3 BASE (OUTSERT) ASSY (SPINDLE MOTOR
	Part No.	917-564-0 4617-371- 572-085-1 4917-504-
	Ref. No. Pa	* 206 4- * 207 A- \$101 1- M101 X- M102 X-
	Remark	
ST01 205	Ref. No. Part No. Description	A201 8-848-144-11 DEVICE, OPTICAL KSS-240A 202 1-575-001-11 WIRE, FLAT TYPE (12 CORE) 203 4-917-567-01 GEAR (M) 204 4-933-126-01 INSULATOR (A) 205 4-917-565-01 SHAFT, SLED
Pu-sbor	Remark	
	Description	4-933-112-01 TABLE, DISK 4-933-110-01 HOLDER (MG) 1-452-538-11 MAGNET 4-933-134-01 SCREW (+PTPWH M2. 6X6) 4-917-541-01 SPRING (B)
	Ref. No. Part No.	159 4-933-112-01 TABLE, 160 4-933-110-01 HOLDER 161 1-452-538-11 MAGNET 162 4-933-134-01 SCREW 163 4-917-541-01 SPRING
	- Re	*

4-917-565-01 SHAFT, SLED
M101 X-4917-504-1 MOTOR ASSY (SLED)
M102 X-4917-523-3 BASE (OUTSERT) ASSY (SPINDLE MOTOR)
Note: The components identified by mark \(\hat{\text{A}} \) or dotted line with mark \(\hat{\text{A}} \) are critical for safety.
Replace only with part number specified.

Remark

4-933-129-01 HOLDER (BU) A-4604-363-A MOTOR (L) ASSY

164 M201

4-927-651-01 PULLEY (S) 4-927-628-01 GEAR (C) 4-933-107-01 GEAR (PL)

156 157 158

Remark

Description

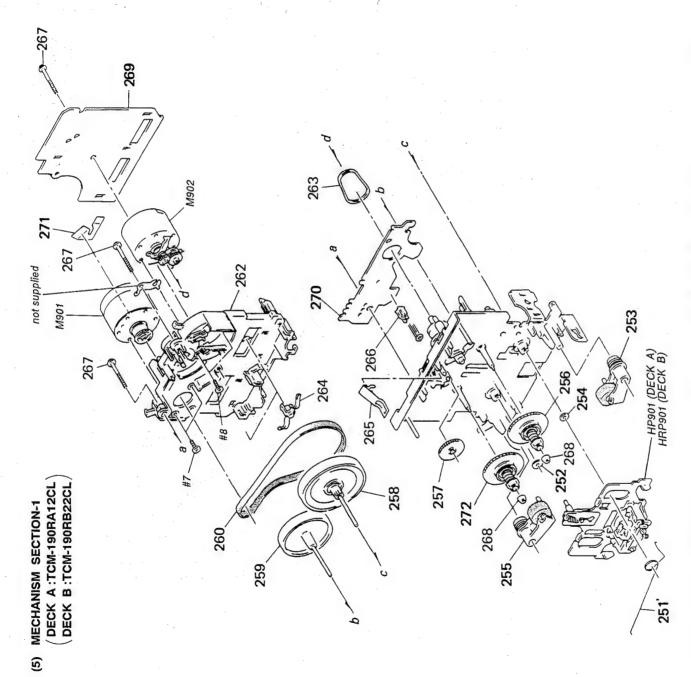
Part No.

Ref. No.

10N 10N 10N

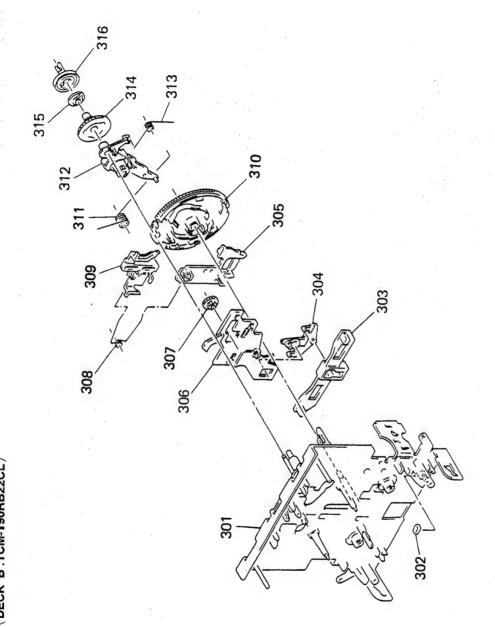
1-632-202-11 LOADING BOARD 4-933-111-01 CHASSIS (MD) 4-917-583-21 BRACKET, YOKE 4-927-649-01 BELT 4-933-109-01 CAM

* 151 152 * 153 154



Ref. No.	Ref. No. Part No.	Description	Remark	Ref. No.	Ref. No. Part No.	Description	Remark
251	3-359-455-01	3-359-455-01 SPRING, TORSION		265	3-359-430-01	3-359-430-01 SPRING (CASSETTE RETAINER), LEAF	
252	3-356-714-01 WASHER	WASHER		266	3-343-419-01	3-343-419-01 HOLDER (S SENSOR A)	
253	X-3359-408-1	4-3359-408-1 LEVER (PINCH LEVER FWD) ASSY	SY	267	3-359-414-01	3-359-414-01 SCREW (+PTPWH 2X23)	
254	3-356-713-01 WASHER	WASHER		268	3-362-308-01 CAP (REEL)	CAP (REEL)	
255	X-3359-409-1	K-3359-409-1 LEVER (PINCH LEVER REV) ASSY	SY				
				* 269	A-2006-609-A	A-2006-609-A AUDIO BOARD, COMPLETE (DECK A)	
256	X-3359-404-1	X-3359-404-1 TABLE ASSY, REEL		* 269	A-2006-610-A	A-2006-610-A AUDIO BOARD, COMPLETE (DECK B)	
257	3-359-424-01	3-359-424-01 GEAR (REV GEAR)		* 270	1-638-020-11	1-638-020-11 LEAF SW BOARD	
258	X-3359-406-1	<-3359-406-1 FLYWHEEL (FWD) ASSY		271	1-638-983-11	1-638-983-11 PC BOARD, MOTOR FLEXIBLE	
259	X-3359-410-1	K-3359-410-1 FLYWHEEL (REV) ASSY		272	X-3362-078-1	X-3362-078-1 TABLE ASSY (B), REEL	
260	3-359-417-01	3-359-417-01 BELT (FLAT), CAPSTAN					
				HP901	A-2003-838-A	HP901 A-2003-838-A DECK ASSY, HEAD (DECK A)	
* 262	3-359-436-01	3-359-436-01 BASE (THRUST RETAINER), FITTING	TING	HRPE90	1A-2004-190-A	HRPE901A-2004-190-A DECK ASSY, HEAD (DECK B)	
263	3 - 359 - 466 - 01	3-359-466-01 BELT (FR), SQUARE		M901	X-3359-417-1	4901 X-3359-417-1 MOTOR ASSY (CAPSTAN)	
264	3-575-321-00	3-575-321-00 BFTAINFR THRUST CAPGTAN		MOD?	X-3363-501-1	MOD? Y-3363-501-1 MOTOR ACCY (RFF!)	

MECHANISM SECTION-2 (DECK A:TCM-190RA12CL) (DECK B:TCM-190RB22CL) 9



		NOI			-		
SLIDER (BRAKE PLATE)	GEAR (CAM GEAR)	SPRING (TRIGGER SPRING), TORS	LEVER (FR ARM) ASSY	SPRING (FR ARM), TORSION	GEAR (FR GEAR)	CLUTCH (REEL DISK)	3-359-418-01 PULLEY (FR PULLEY)
3-359-429-01	3-359-420-01	3-359-456-01	X-3359-405-1	3-359-453-01	3-359-419-01	3-359-421-01	3 - 359 - 418 - 01
303	310	311	312	313	314	315	316
CHASSIS ASSY, MECHANICAL	SPACER	SLIDER (REVERSE SLIDER)	LEVER (REVERSE LEVER)	SLIDER (LEVERSE SLIDER)	SLIDER (TRIGGER SLIDER)	GEAR (TRIGGER)	3-359-454-01 SPRING, TORSION
X-3359-415-1	3 - 359 - 469 - 01	3-359-425-01	3-359-426-01	3-359-427-01	3-359-415-01	3-359-448-01	3-359-454-01
101	302	303	304	302	306	307	808
	01 X-3359-415-1 CHASSIS ASSY, MECHANICAL 309 3-359-429-01 SLIDER (BRAKE PLATE)	309 3	309 3 310 3	309 3 310 3 311 3 312 X	309 3 310 3 311 3 312 X 313 3	309 3 310 3 311 3 312 X 312 X 313 3	309 310 311 3 312 X 312 X 313 3 313 3 314 3 315 3 315 3

SECTION 5

LIST **PARTS** ELECTRICAL

AUDIO-A

AUDIO-B

NOTE:

- the parts list may be different from the parts specified in the diagrams or the • Due to standardization, replacements in
 - components used on the set.

 -XX and -X mean standardized parts, so they may have some difference from the original one.
 - RESISTORS

METAL:Wetal-film resistor. METAL OXIDE: Metal oxide-film resistor. F:nonflammable All resistors are in ohms.

Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items. SEMICONDUCTORS

uA ..: μ A. uPA..: μ PA. uPB.. uPB..: μ PD. In each case, $u:\mu$, for example:

CAPACITORS

Ref.

Remark

1/10W 1/10₩ 1/10W 1/10W 1/10W 1/10W 1/10W 1/10₩ 1/10₩

•

IT: Italian Model MY: Malaysia Model SP: Singapore Model When indicating parts by reference number, please include the board. Abbreviations
AUS: Australian Model
EA: Saudi Arabia Model
EE: East European Model
G: Germany Model uF: μ F • COILS uH: μH

marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié. The components identified by mark \triangle or dotted line with mark. \triangle are critical for safety. Replace only with part number Les composants identifiés par une specified.

											4,			4,			4,					^		•			
		8-729-216-22 TRANSISTOR 2SA1162-G			120K	100	130K	5. 6K	120K		100	130K	5. 6K	220	220		24K	22K	47K	47K		< VARIABLE RESISTOR >		N 1K	N 1K	N 10K	N 10K
u.	O.B. >	1 2SA1	^				H				_	щ	_	_	_		Ξī					RESI		CARBON 1K	CARBON	CARBON	CARRON
Description	< TRANSISTOR >	ISTOR	< RESISTOR >		CHIP	CHIP	GLAZE.	CHIP	CHIP		CHIP.	GLAZE	CHIP	CHIP.	CHIP		GLAZE.	CHIP	CHIP	CHIP		IABLE		ADJ,	ADJ,	ADJ,	AD.I
Descr	< TRA	TRANS	< RES		METAL	METAL	METAL	METAL	METAL		METAL	METAL	METAL	METAL	METAL		METAL	METAL	METAL	METAL		< VAB		RES,	RES,	RES,	RFS
		16-22			00-66	25-00	00-00	00-49	99-00		25-00	00-00	92-09	33-00	33-00		82-00	81 - 00	39-00	39-00				12-11	12-11	16-11	6-11
Part No.		729-2			-216-099-00 METAL	1-216-025-00	1-216-100-00 METAL	1-216-067-00 METAL CHIP	1-216-099-00		1-216-025-00 METAL CHIP	1-216-100-00 METAL	1-216-067-00 METAL	1-216-033-00 METAL CHIP	1-216-033-00		1-216-082-00 METAL	1-216-081-00 METAL	1-216-089-00 METAL CHIP	1-216-089-00 METAL				1-238-012-11	1-238-012-11	1-238-016-11	1-938-018-11
1		8			4	<u></u>	4	 	+		<u></u>	<u> </u>	-	4	4		-	4	÷	-							,
Ref. No.		071			R11	R12	R13	R14	R21		R22	R23	R24	R31	R32		R71	R72	R73	R74				RV11	RV21	RV71	PV79
																	_										
				-	_	_	7	1		/	1	1	_	_		_											
Remark				500	507	16V	507	50V		50V	16V	50V	16V	16V		50V											
₩.				5%	36	20%	2%	2%		26	20%	26	20%	20%		20%									Ь	3Ъ	
	ं स्य ∗				٠					12										ARD					RD) 4	TYPE)	
	COMPLETE			390PF	0.022uF	22uF	100PF	390PF		0.022uF	22uF	100PF	22uF	22uF		uF.				TO B0	4P				C BOA	(SMALL TYPE) 3P	
	-		^		_	.,					.,			.7		NONPOLAR 1uF				30ARD	ECTOF		^		TOR (F	TOR (S	
tion	BOAF		TOL	CHIE			CHIL	CHIF				CHIP				NONP		^		OR, E	CON		CTOR		NNECT	CONNECTOR	
Description	A-2006-623-A AUDIO-A BOARD, COMPLETE		< CAPACITOR >	-163-131-00 CERAMIC CHIP	ILM	ELECT	-163-117-00 CERAMIC CHIP	1-163-131-00 CERAMIC CHIP		ILM	LECT	-163-117-00 CERAMIC	LECT	ELECT				< JACK >		ONNECT	1-580-411-11 SOCKET, CONNECTOR 4P		< CONNECTOR >		1-580-772-11 PIN, CONNECTOR (PC BOARD) 4P	IN, CO	
ă	-A A!		~	00 CI	00 F	00 EI	00 CI	10 CI		00 F	00 E	00 CI	00 E	00 EI		11 El		~		11 00	11 S(~		11 P	11 P	
0	-623			-131-	-157-	-234-	-117-	-131-		-157-	-234-	-117-	-124-234-00 ELECT	-234-		-488-				-782-	-411-				-772-	-719-	
Part No.	A-2001			1-163	1-136-157-00 FILM	1-124-234-00	1-163	1-163		1-136-157-00 FILM	1-124-234-00 ELECT	1-163	1-124	1-124-234-00		1-124-499-11 ELECT,				1-580-782-11 CONNECTOR, BOARD TO BOARD	1-580				1-580	1-564-719-11 PIN,	
lef. No.				C11	C12	C13	C18	-		C22	C23	C28	C31	C32	ı	C72				CNJ31	CNJ72				CNP32		
ef.				5	C	2	2	C21		S	C	3	ຮ	ຮ		S				5	S				5	5	

1/10W 1/10₩ 1/10W 1/10W

2 2 2 2

2 2 2 2 2 2

< 10 >

8-759-106-02 IC uPC4570G2 1031

< JUMPER RESISTOR >

3	5 8	= =	= =	=	3
1	1 /90	2 4	0/1	1/8	~
76	\$ è	8 è	80	900	24
-		0 0	- o	-	_
CHID	CHID	OHILL COLUMN	CHIP	CHIP	CHID
METAI	METAL	ME IAL	MEIAL	MEIAL	MFTAI
1_916_905_00	1 216-205-00 METAL CHIP	1-210-230-00	1-216-296-00	1-216-296-00	1-216-206-00
	186.1				

20% 20% 20% 5% 10% A-2006-624-A AUDIO-B BOARD, COMPLETE 0.022uF 390PF 390PF 22uF 75PF < CAPACITOR > CERAMIC CHIP 1-124-234-00 ELECT 1-136-273-91 FILM 1-164-080-11 CERAMIC FILM 1-163-131-00 C 1-136-157-00 F 1-124-234-00 E C12 C13 C14 C15

16V 630V 50V

507

AUDIO-B

Remark																																						[X	Į.															-			
Rem	1/8#	1/8W	1 /8W	1 /OIL	T/04	1/8#	1/8₩	1/8#	1/8₩																1/10W	1/10W	1/10W	1/100	1/4W	HE /T	1/10₩	1/10W	1/10W	1/10	1/44	1 /1 NW	1/10W			1/10W		1/10W	1/10W	1/10W	1/10W	1/10W		1/10₩	1/10W	1/10W	1/10W						
	500	2%	95	2 2	29	26	ا ما ا ما	2%	ž																2%	5%	5%	26	2 25	9	2%	2%	2%	ر م	3%	84	2 25	36	96	5%		24	2%	2%	2%	96		2%	2%	2%	2%						
	. 0	0	_		0	0	0	-	0							^		1616A-K	1616A-K	1616A-K	11169 6	1-70TT			120K	100	130K	5 6K	12K	1771	120K	100	130K	5. 6K	W71	220	220	10	10	12K		12K	10K	5,6	5.6	2.2		24K	22K	47K	47K		SISTOR >		CARBON 1K	CARBON 220K	MOTO MODILO
Description	METAL CHIP	METAL CHIP	METAL	MCTAI		METAL CHIP	METAL CHIP	METAL CHIP	METAL CHIP		< COIL >	1-410-780-11 INDUCTOR 27mH	1-410-780-11 INDRICTOR 27mH	11000011	, domotouten	< TRANSISTOR >		TRANSISTOR 2SD1616A-K	TRANSISTOR 2ST	8-790-111-90 TRANSISTOR 2SD1616A-K	TRANSTETON 961	8-729-210-22 IMANSISIUM 23A1102-U	< BESTSTOB >	NOTOTOTI N	METAL CHIP	METAL CHIP	METAL	MFTAL	CARRO	Nomico	METAL CHIP	METAL CHIP		METAL CHIP	CARBUN	MFTAI CHID				METAL CHIP		METAL CHIP	METAL CHIP	METAL CHIP	METAL	METAL		METAL GLAZE	METAL	METAL	METAL		< VARIABLE RESISTOR >		ADJ.	AD.I.	2
Part No.	1 - 216 - 296 - 00	1 - 216 - 296 - 00	1-216-296-00	1 010 000 00	00-067-017-1	1-216-296-00 METAL	1-216-296-00 METAL CHIP	1-216-296-00 METAL	1-216-296-00 METAL CHIP			1-410-780-11	1-410-780-11	11 00 101 T				8-729-111-29	8-799-111-99	8-720-111-20	0 790 916 99	77-017-671-8			1-216-099-00 METAL CHIP	1-216-025-00	1-216-100-00	1-216-067-00	1-249-430-11	TT 00% 6%7 T	1 - 216 - 099 - 00	1-216-025-00	1-216-100-00	1-216-067-00	1-249-430-11	1-916-033-00	1-216-033-00	1-249-393-11	1-249-393-11	1-216-075-00		1-216-075-00	1 - 216 - 073 - 00	1 - 216 - 309 - 00	1 - 216 - 309 - 00	1-216-298-00		1 - 216 - 082 - 00	1 - 216 - 081 - 00	1 - 215 - 089 - 00	1 - 216 - 089 - 00				1-238-012-11 RES.	1-928-551-11 RFC	11 11:1:10:/-1
Ref. No.	JW56	JW57	11458	COLL	RCMP.	JW60	JW61	JW62	JW63			111	1.21	1111				051	052	053	27.	4/1			R11	R12	R13	R14	. B15	CIN	R21	R22	R23	R24	KZ3	R31	R32	R41	R42	R51		R52	R53	R54	R55	R56		R71	R72	R73	R74				RV11	DV719	, NA
Remark	200	200	500		Anc	167	630V	200	200	50V	16V	167	160	101	Anc	200	50V		6300	160	101	101	200	5							-														-			1.									
Rel	36	2%	94	e e	38	20%	26	10%	2%	2%	20%	20%	20%	100	10%	10%	10%		96	8		90	20%	¥0.4									Ь	3Б											1/8₩	1/10W	1/10W	1/10W	1/10₩		1/10W	1/8₩	1/8₩	1/8₩	1/8₩		
	27PF	100PF	SOUPE	1000	U. UZZUF	22uF	75PF	390PF	27PF	100PF	22uF	22uF	22uF	3.0000 0	U. UUBBUL	0. 0068uF	0.012uF		0 004711F	9 2uF	2. cui	lur 0.010 n	U. Ulbur InF	ını			D TO ROARD	BOARD TO ROARD	OR AP	TF W	2		CONNECTOR (PC BOARD) 7P	(SMALL TYPE) 3P									OR >		0 2%		2%	0 2%			0 5%				0 2%		
Description	TERAMIC CHIP	CERAMIC CHIP	CERAMIC CHID	OLIVERAL OILL	FILM	ELECT	FILM	CERAMIC	CERAMIC CHIP	CERAMIC CHIP	ELECT	FLECT	FIFET	TEDAMIA CITID	CERAMIC CHIP	CERAMIC CHIP	CERAMIC CHIP		FILM	CEDAMIC CHID	TENENTIC CITE	CERAMIC CHIP	ELECT NONDOLAR 111F	LLLUI, MONFOLDIN	< JACK >		1-580-789-11 CONNECTOR ROARD TO BOARD	CONNECTOR BOAR		SUCRET, COMMECT	< CONNECTOR >		CONNECTOR	PIN, CONNECTOR	/ PIONE /	V DIODE /	DIODE MA110		< 10 >		1C uPC4570G2		< JUMPER RESISTOR		METAL CHIP	MFTAL CHIP	METAL CHIP				METAL CHIP						
Part No. D	1-163-103-00 0	1-163-117-00 0	1-163-131-00 0	1 100 101 001 1	1-136-157-00 F	1-124-234-00 ELECT			1-163-103-00 0			1-124-234-00 F				1-163-019-00 0	1-163-022-00 CERAMIC CHIP		1-136-550-11 F			1-164-346-11	1-163-024-00 C		*		1-580-789-11 (1-580-782-11	1-580-411-11	1-300-411-11			1-580-781-11 PIN,	1-564-719-11 F			8-719-404-46 DIODE WA110	1 11 11 11 1	~		8-759-106-02 IC uPC4570G2		•		1-216-296-00 METAL	1-216-295-00 N	1-216-295-00 N				1-216-295-00 M						
Ref. No.	217	C18	161	177	770	C23	C24	C25	C27	C28	C31	C32	[33	5.5	103	C52	C23		727	# CO	000	C57	C58	710			CN 131	* CN133	CN133	7/ PNO			* CNP32	CNP71			D31	5			1031				JW1	CWI.		JW4	TWE		JH7	JW52	JW53	JW54	IWS5		

Remark								:						٠٠.					٠.							4 " 	1							
Ren					1/10W 1/10W						1/10₩	1/10₩	1/10W	1/104	1/10W 1/10W	1/10W	1/10W 1/10W	1/10W	1/10W	1/10%	1/10₩	1/10₩	1/10₩	1/10W 1/10W	1/10₩	1/10₩	1/10W	1/10W	1/10₩	1/10W	INT /T		•	
					26 26						2%	26 26	25 25	979	26 26	2	2 2	5%	26	26 25	25	2%	2%	26 26	2%	2%	26 26	26 29	25%	25 25	90			
	×				0,0		(SLED)		TC144EK		100K	82K	120K	0. on	3. 3K 510K	220K	3. 3K 1K	1K	27K	8. 2K 220K	10K	33K	33K	68K 22K	18K	18K	18K	4 9	10	2 5	3	ESISTOR >	CARBON 10K CARBON 10K	
Description	< DIODE > 8-719-021-25 DIODE UZM4. 7X	< 0:	IC CXA1372AQ IC LA6532M IC M54641L	< JACK >	AL CHIP	< MOTOR >	X-4917-504-1 MOTOR ASSY (SLED)	< TRANSISTOR >	8-729-901-01 TRANSISTOR DTC144EK	< RESISTOR >	METAL CHIP	METAL CHIP			METAL CHIP METAL GLAZE		METAL CHIP METAL CHIP	METAL CHIP		MEIAL CHIP		METAL CHIP		METAL CHIP METAL CHIP		METAL CHIP	METAL CHIP		METAL CHIP	METAL CHIP	AL CUIL	< VARIABLE RESISTOR	ADJ, ADJ,	
	< I	OI >		· ·	1-216-295-00 METAL CHIP 1-216-295-00 METAL CHIP	~	-504-1 MO	~	901-01 TR	×		1-216-095-00 MET			1-216-061-00 MET		1-216-061-00 ME7 1-216-049-00 ME7	1-216-049-00 ME7		1-216-071-00 ME 1-216-105-00 MET		1-216-085-00 MET		-216-093-00 MET -216-081-00 MET		1-216-079-00 MET	1-216-079-00 ME		1-216-001-00 MET	1-216-001-00 MET		· >	1-238-016-11 RES, 1-238-016-11 RES,	
Part No.	8-719-		8-752-058-77 8-759-822-36 8-759-633-65		1-216- 1-216-		X-4917		8-729-		1-216-	1-216-	1-216-	-017-1	1-216- 1-216-	1-216-	1-216- 1-216-	1-216-	1-216-	1-216- 1-216-	1-216-	1-216-	1-216-	1-216- 1-216-	1-216-	1-216-	1-216-	1-216-	1-216-	1-216-	-017-1		1-238- 1-238-	
Ref. No.	D101	*	IC101 IC102 IC103		J101 J102		M101		0101		R101	R102	R104	KIUS	R106 R107	R108	R109 R110	R111	R112	R113	R152	R153	R154	R155 R156	R157	R158	R159	R171	R172	R173	K1./4		RV101 RV102	
-															• • •															,				
mark							257	25V 50V	25V	0. 34	6. 3V 6. 3V	25V	25V 25V	200	50V 50V	1000	100V	25V 25V	1000	25V 50V		25V 50V	1000	50V 25V		25V 25V	25V							
Remark							257	10% 25V			20% 6.3V 20% 6.3V	25V	25V 10% 25V	10% 20V			10% 100V	25V 25V		10% 25V 10% 50V		25V 10% 50V		5% 50V 25V		25V 25V	25V				de .			
Remark	N 220K N 10K N 10K			LLATION					8 80	\$07						ıF 10%		0. 1uF 25V 0. 1uF 25V	, 10%				0022uF 10%			0. 1uF 25V 0. 1uF 25V				TVDE				
13. 13.	ADJ, CARBON ADJ, CARBON ADJ, CARBON	JLAY >	NY Zanspormer >			**************************************	0. 1uF	C CHIP 0.033uF 10%	C CHIP 0. 1uF	4/ur 20%	47uF 20% 47uF 20%	CHIP 0. 1uF	CHIP 0. 1uf CHIP 0. 033uF 10%	22uF 10%	0.01uF 0.01uF	0. 0022uF 10%	0. 0022uF 10%	0. 1uF 0. 1uF	CHIP 0.0022uF 10%	CHIP 0.033uF 10%		CHIP 0. 1uF CHIP 560PF 10%	CHIP 0.0022uF 10%	CHIP 0.015uF 5%		0. 1uF 0. 1uE	0. 1uF	ONNECTOR >		TVDE				
Description Remark	RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON	< RELAY >	1 RELAY < TRANSFORMER >			**************************************	CERAMIC CHIP 0. 1uF	CERAMIC CHIP 0.033uF 10%	CERAMIC CHIP 0. 1uF	ELECT 4/ur 20%	ELECT 47uF 20% ELECT 47uF 20%	CERAMIC CHIP 0. 1uF	CERAMIC CHIP 0.1uf CERAMIC CHIP 0.033uF 10%	TANTALUM 22uF 10%	CERAMIC CHIP 0.01uF	CERAMIC CHIP 0.0022uF 10%	CERAMIC CHIP 0.0022uF 10%	CERAMIC CHIP 0. 1uF	CERAMIC CHIP 0.0022uF 10%	CERAMIC CHIP 0.033UF 10%		CERAMIC CHIP 0. 1uf CERAMIC CHIP 560PF 10%	CERAMIC CHIP 0.0022uF 10%	CERAMIC CHIP 0.015uF 5%		CERAMIC CHIP 0. 1uF	CERAMIC CHIP 0.1uF	< CONNECTOR >		TVDE				
13. 13.	ADJ, CARBON ADJ, CARBON ADJ, CARBON	< RELAY >	1-515-726-11 RELAY < TRANSFORMER >		COMPLETE	**************************************	CERAMIC CHIP 0. 1uF	C CHIP 0.033uF 10%	CERAMIC CHIP 0. 1uF	4/ur 20%	47uF 20% 47uF 20%	CERAMIC CHIP 0. 1uF	CHIP 0. 1uf CHIP 0. 033uF 10%	22uF 10%	CERAMIC CHIP 0.01uF	CERAMIC CHIP 0.0022uF 10%	0. 0022uF 10%	0. 1uF 0. 1uF	CERAMIC CHIP 0.0022uF 10%	CHIP 0.033uF 10%		CHIP 0. 1uF CHIP 560PF 10%	CERAMIC CHIP 0.0022uF 10%	CHIP 0.015uF 5%		0. 1uF 0. 1uE	CERAMIC CHIP 0.1uF	< CONNECTOR >			1-564-721-11 FIN, CONNECTOR (SMALL IYPE) 5F			
Description	RES, ADJ, CARBON RES, ADJ, CARBON RES, ADJ, CARBON	< RELAY >	RY31 1-515-726-11 RELAY < TRANSFORMER >	1-406-419-11 COIL, BIAS OSCILLATION		**************************************	CERAMIC CHIP 0. 1uF	CERAMIC CHIP 0.033uF 10%	1-120-103-11 ELECT 6.101 2000 1-163-038-00-0-105	ELECT 4/ur 20%	ELECT 47uF 20% ELECT 47uF 20%	1-163-038-00 CERAMIC CHIP 0. 1uF	CERAMIC CHIP 0.1uf CERAMIC CHIP 0.033uF 10%	TANTALUM 22uF 10%	1-164-232-11 CERAMIC CHIP 0.01uF	1-164-161-11 CERAMIC CHIP 0.0022uF 10%	CERAMIC CHIP 0.0022uF 10%	CERAMIC CHIP 0. 1uF	1-164-161-11 CERAMIC CHIP 0.0022uF 10%	CERAMIC CHIP 0.033UF 10%		CERAMIC CHIP 0. 1uf CERAMIC CHIP 560PF 10%	1-164-161-11 CERAMIC CHIP 0.0022uF 10%	CERAMIC CHIP 0.015uF 5%		CERAMIC CHIP 0. 1uF	1-163-038-00 CERAMIC CHIP 0.1uF	< CONNECTOR >		TVDE	1-564-721-11 PIN, CONNECTOR (SMALL LYPE)			

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Remark

	Rei																			* :		/480	1/4W	1/4W	1/4₩	1/4W	1/4₩	1/4₩	/4M															JE)		
																		CN.				٠					1		_													SE)		(AMS DD) (FDIT/TIME FADE)		.
												٠.	: :			TOR		rLUOKESCENI				è	5 S	26.5	2%	35		50	25			(PROGRAM)	SE)		(CONTINUE)	FR)	3 5	(AMS KID)	(SHUFFLE)	(3		(OPEN/CLOSE)	<u>a</u>			
																NDICA		r. C		W32		100	33K	33K	33K	33K	4. 7K	4. 7K	68K				(PAUSE)	\$	NO)	(FANFR)		(AMS	SH	(TIME)	3					
	Description	DIODE /) July	DIODE 1N4148M	DIODE 1N4148M	E 1N4148M	DIODE IN4148M	L INTIGOR	DIODE 1N4148M	E 1N4148M	E 1N4148M	E 1N4148M	E IN4148M	E 1N4148M	E UZL-9H1	< FLUORESCENT INDICATOR >		FLD/UI I-519-681-ZI INDICAIUK 1UBE,	:	8-759-156-33 IC uPD75216ACW-W32	< RESISTOR >	7	N NC		NC	N(NO.	NC	N.	< SWITCH >		H, TACTILE			H, TACTILE	H TACTIFF				H, TACTILE	H TACTILE			H, TACTILE		
	Desc	2	3		DIOD	DIODE	DIODE	010	010	DIODE	DIODE	DIODE	010	DIODE	DIOD	< FLI		I ON I	< 10 >	IC u	> E	700.40	CARRON	CARBON	CARBON	CARBON	CARBON	CARBON	CARBON	SS >		SWITCH,	SWITCH,	SWITCH,	SWITCH,	CWITCH	CWITCH	SWITCH.	SWITCH	SWITCH,	CWITCH	SWITCH,	SWITCH,	SWITCH,		
	Part No.			8-719-987-63	8-719-987-63	8-719-987-63	8-719-987-63	113-301-03	8-719-987-63	8-719-987-63	8-719-987-63	8-719-987-63	8-/19-98/-63 DIODE IN4148M	8-719-987-63	8-719-001-21 DIODE UZL-9H1			17-189-616		759-156-33			1-249-435-11		-249-435-11	1-249-435-11	1-249-425-11		1-249-439-11			1-554-303-21			1-554-303-21	1-554-303-91				1-554-303-21	1-554-303-91			1-554-303-21		
		 		φ.			φ.	b	φ	&	φ,	φ ,	Ď	8	φ.		,	<u>-</u> ,				•	<u>'</u>	4 4	-	-	1	+	+					1	+	<u>, </u>	-		-	1-	<u>;</u>	-	-		•	
	Ref. No.			D701	D702	D703	D704	co/n	D706	D707	D708	D709	0710	D711	D712		i	rcny		10701		1000	R702	R703	R704	R705	R706	R707	R708			S701	S703	S704	S705	970B	0010	8708	8709	\$710	4711	S712	S713	S714 S715	;	
																,				-											-							*****								-
	Remark	Ľ				ستنا		L							Ľž.			<u>.</u> [2							***		EP, E.		*****							257	VC2	V62	100							
	2	1 //w	1/4W	1/4₩	1/4₩	1/4#	1 /410	1/44	1/4₩	1/4₩	1/4₩		1/44	1/4₩	1/4₩	1/4	1/4₩	1/44	1/4W						*****		COMPLETE (D209:AEP, E, SP/D309:AEP, E, IT, EA.		*****										20%					^ X	:	
		9	5 56			26	ş	26 26	26	26	25	i	2 2	25	26	28	ر ا ش	ž 2	26.5					#Hz	*		LETE 309:/		* * *	ET.	*					J.F.	יוני מיני	<u> </u>						BL0	LOCK	LVV
]	-	027	100K	100K	100K	220	000	22K	22K	22K	33K		36K	10K	11	10K	22K	10	100	ER >	POWER.		` :	VIBRATOR, CRYSTAL 33MHz	*******		CD PANEL BOARD, COMPLETE (D209:AEP, I IT. EE. EA. AUS. MY. SP/D309:AEP. E. IT. EA.	S, AUS)		CD PANEL BOARD, COMPLETE (D209:UK, G/D309:UK, G)	********	FI TIBE		•		0. 022uF	0.027	0. 022ur	47uF			NECTOR 27F		< COMPOSITION CIRCUIT BLOCK >	CIRCUIT B	רווייווים
	Description	CADBON	CARBON	CARBON	CARBON	CARBON	CADDON	CARBON	CARBON	CARBON	CARBON		CARBON	CARBON	CARBON	CARBON	CARBON	CARRON	CARBON	< TRANSFORMER	ANSFORMER	TODATOD	VIDRAIUR >	BRATOR, C	*****		CD PANEL BO IT. EE. EA. AU	EE, MY, SP, CIS, AUS)	*****	CD PANEL BOARD, (D209:UK, G/D309	******	INFR (1F)	ממכונ (זון)	< CAPACITOR		CERAMIC	CEDANTO	CFRAMIC	ELECT		< CONNECTOR >	CKET, CON		COMPOSITI	MPOSITION MPOSITION	#FUSTITUM
	ã																			~	1 TR	1	/	1 VI	* * *			田		_	*	1 HO	1	~		OCE	3 6				V ,	1 SO		~	1 00	5 5
	Part No.	1 940 419 11	1-249-413-11	1-249-441-11	1-249-441-11	1-249-409-11	1 040 400 4	1-249-409-11	1-249-433-11	1-249-433-11	1-249-435-11		1-249-438-11	1-249-429-11	1-249-417-11	1-249-429-11	1-249-433-11	1-249-393-11	1-249-405-11		1-423-426-11 TRANSFORMER,			1-579-833-21	***************		A-4356-653-A			A-4356-662-A		4-055-816-01 HOLDER (1E)	o oto ccc t			1-161-494-00	1 161 494-00	1-164-159-10	1-124-126-00			1-568-842-11 SOCKET, CONNECTOR 27P			1-239-612-11 COMPOSITION CIRCUIT BLOCK	T_070_807_T
	Ref. No.	מבנט	R551	R552	R553	R600	1000	R001 R602	R603	R604	R609		R610	R612	R613	R614	R615	Rb1b R617	R801		Φ T500			X501	*****		*			*		*	•			C702	2070	C705	C706			* CN701			CP701	701.10
						•																																					9			

The components identified by L mark A or dotted line with p mark. A are critical for safety. Replace only with N part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

	CD	PANEL		EAF	SW-A	LEA	AF SW-B		LOADING	7	M
Part No.	Description	ption		Re	Remark	Ref. No.	Part No.	Description		Ren	Remark
-554-303-21	SWITCH,	TACTILE	(TIME SET)	T)				< RESISTOR >			
1-554-303-21 1-554-303-21 1-554-303-21 1-554-303-21		TACTILE TACTILE TACTILE TACTILE		(NEW)		R81 R82 R83	1-249-414-11 1-247-818-11 1-247-834-11	CARBON CARBON CARBON	560 5% 300 5% 1.3K 5%	1/4W 1/4W 1/4W	[E. [E
1-554-303-21 1-554-303-21 1-554-303-21	1 SWITCH, 1 SWITCH, 1 SWITCH,	TACTILE TACTILE TACTILE	(2) (7) (12)		-	R85	1-249-408-11			1/4W	. II-
1-554-303-21 1-554-303-21	21 SWITCH, 21 SWITCH,	TACTILE	(3)			S81	1-571-958-11		(1 KEY) (STOP DET)	DET)	
1-554-303-21 1-554-303-21 1-554-303-21 1-554-303-21	21 SWITCH, 21 SWITCH, 21 SWITCH, 21 SWITCH.	TACTILE TACTILE TACTILE TACTILE	(4) (9) (10)			\$84 \$84 \$85 \$85 *******	1-571-281-21 SWITCH, 1-571-281-21 SWITCH, 1-571-281-21 SWITCH, 1-571-281-21 SWITCH,	SWITCH, LEAF SWITCH, LEAF SWITCH, LEAF SWITCH, LEAF		*	* * *
1-554-303-21 1-554-303-21 1-554-303-21 1-554-303-21	1-554-303-21 SWITCH, 1-554-303-21 SWITCH, 1-554-303-21 SWITCH, 1-554-303-21 SWITCH,	TACTILE TACTILE TACTILE TACTILE	(>12) (CHECK) (CLEAR) (A. SPACE/A.	E/A. CUE)		*	1-632-202-11	1-632-202-11 LOADING BOARD ************************************	A * ^	6-	
	< VIBR	TOR >				* CN301	1-564-707-11	PIN, CONNECTO	1-564-707-11 PIN, CONNECTOR (SMALL TYPE) 5P	3) 5P	
7-08	X701 1-577-082-11 VIBRATOR, CERAMIC 4MHz	OR, CERAMIC 4MHz	C 4MHz	*****	**			< MOTOR >			
9-0	1-638-020-11 LEAF SW-A BOARD	LEAF SW-A BOARD				M201	X-4604-363-A	X-4604-363-A MOTOR (L) ASSY	SY		
	< CONN	CONNECTOR >				S271	1-572-086-11 SWITCH,	SWITCH, LEAF			
8-8	1-568-850-11 SOCKET, CONNECTOR 7P	; CONNECTOR	R 7P		-	*****	***********	*****	*********	*****	* * * *
	< 01 >					*	A-4356-643-A		COMPLETE	(D209:AEP, E,	ம் 🧟
9-7	8-719-710-03 DIODE NJL5165K-B	NJL5165K-B						EE, MY, SP, CIS, AUS)	, AUS) ************************************	*****************	***
	< RESI	< RESISTOR >				*	A-4356-654-A		D, COMPLETE 309:UK, G)		
9-41 9-40	1-249-417-11 CARBON 1-249-408-11 CARBON		1K 5% 180 5%	1/4W 1/4W	Îzu Ezu	*	4-942-204-01	**************************************	******		
	< SWITCH >	< HO						< CAPACITOR >			
1-95 1-28 1-28	1-571-958-11 SWITCH, PUSH 1-571-281-21 SWITCH, LEAF 1-571-281-21 SWITCH, LEAF		(1 KEY) (STOP DET) (TYPE II DET) (HALF DET) ************************************	P DET)	* * * * * *	C122 C123 C126	1-130-479-00 MYLAR 1-162-291-31 CERAM 1-136-165-00 FILM	MYLAR CERAMIC FILM	0.0047uF 560PF 0.1uF	5% 5% 5%	50V 50V 50V
8-02	1-638-020-11 LEAF SW-B BOARD	LEAF SW-B BOARD				C128	1-126-301-11	ELECT	1uf	20%	20V
9-71	**************************************	.******** NJL5165K-B				C129 C130 C131	1-124-465-00 1-126-791-11 1-164-159-11		0. 47uF 10uF 0. 1uF	20%	50V 35V 50V
	< CONN	< CONNECTOR >				C132 C141	1-126-791-11 1-126-301-11	ELECT ELECT	10uF 1uF	20% 20%	35V 50V
8-85	0-11 SOCKET	* CNP81 1-568-850-11 SOCKET, CONNECTOR 7P	R 7P			C142 C143 C222 C223	1-126-791-11 1-161-375-00 1-130-479-00 1-162-291-31	ELECT CERAMIC MYLAR CERAMIC	10uF 0. 0022uF 0. 0047uF 560PF	20% 20% 10%	35V 50V 50V 50V
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2	Des				CARBON			CARBOIN		CARBON	CARBON	CARBON			CARBON	CARBON	CARBON		CARBON		CARBON		CARBON	CARBON	CARRON	CARBON	CARBON	CARBON	CARBON	CARBON		CARBON	CARBON		×	RFC	ES,		\ \ \	VIBR	****		10.		S >	SOCK	2
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4	o O	R425	R426	R427	R431 R432	7	1433	K434 R435	R451	R452	8453	R454	R455	R456	R457	R458	8459	R460	R461 R462		1463	R465	R466	R467	3468	8469	R470	R471	R472	8473	R474	R476	R477			RV101	RV201			X401	******************					CN451	105
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- G	кешагк	2%	2%	5% 1/4W	1/4W	14 J	2%	1/4W	5% 1/4W	5%	1/4₩	5% 1/4₩	25	2%			-	2%		i	25		2%	2%	1 /AW	5% 1/4W	25	2%			26.5	5% 1/4W	5% 1/4W	1/4₩	è	-	26.5	5%		2%	5% 1	5% 1/4W	1/4₩	e .	5% 1/4W	1/4W	26.5
		2%	2%	5% 1/4W	5% 1/4W	14 J	28	5% 1/4W	5% 1/4W	5%	5% 1 /4W	5% 1/4₩	25	2%	26	25	5% 1	2%	26 26	i	25	% % %	2%	2%	59. 1 /4W	5% 1/4W	26	2%	2%	94	26.5	5% 1/4W	5% 1/4W	5% 1/4W	è	5% 1	26.5	5%	2%	2%	5% 1	5% 1/4W	5% 1/4W	e .	5% 1/4W	5% 1/4W	26.5
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	Description Kemark	10K 5%	CARBON 10K 5% 1	CARBON 10K 5% 1/4W	5% 1/4W	1/ 1 % 17 % 1/ 14 % 1/	CARBON 2. 4K 5% 1	CARBON 22K 5% 1/4W	CARBON 12K 5% 1/4W	CARBON 15K 5%	CARRON 4 7K 5% 1/4W	CARBON 8. 2K 5% 1/4W	CARBON 130K 5%	30K 5%	26	CARBON 18K 5%	CARBON 180K 5% 1	2. 2K 5%	CARBON 8. 2K 5%		22K 5%	% % %	2.2K 5%	2%	59. 1 /4W	10 5% 1/4₩	4.7 5%	CARBON 10K 5%	CARBON 1M 5%	CARRON 470K 5%	CARBON 470K 5%	5% 1/4W	5% 1/4W	5% 1/4W	92	5% 1	240 5% 1	160 5% 1	2%	2%	10K 5% 1	CARBON 2. 2K 5% 1/4W	CARBON 2.2K 5% 1/4W CARBON 47K 5% 1/4W	WC WAR	CARBON 10K 5% 1/4W	CARBON 4.7K 5% 1/4W CARBON 4.7K 5% 1/4W	CARBON 10K 5%
		CARBON 10K 5%	CARBON 10K 5% 1	CARBON 10K 5% 1/4W	CARBON 2. 2K 5% 1/4W 8. 2K 5% 1/4W	URIDON 0. LI 30 1/31	CARBON 2. 4K 5% 1	CARBON 22K 5% 1/4W	CARBON 12K 5% 1/4W	CARBON 15K 5%	CARRON 4 7K 5% 1/4W	CARBON 8. 2K 5% 1/4W	CARBON 130K 5%	CARBON 30K 5%	CARBON 10K 5%	CARBON 18K 5%	CARBON 180K 5% 1	CARBON 2. 2K 5%	CARBON 8. 2K 5%		CARBON 22K 5%	CARRON LA 3%	CARBON 2. 2K 5% 1	CARBON 100 5%	CARRON 2 7K 5% 1/4W	CARBON 10 5% 1/4W	CARBON 4.7 5%	CARBON 10K 5%	CARBON 1M 5%	CARRON 470K 5%	CARBON 470K 5%	CARBON 180 5% 1/4W	CARBON 180 5% 1/4W	CARBON 270 5% 1/4W	A COA	CARBON 160 5% 1	CARBON 240 5% 1	CARBON 160 5% 1	CARBON 330 5% 1	CARBON 10K 5%	CARBON 10K 5% 1	CARBON 2. 2K 5% 1/4W	CARBON 2.2K 5% 1/4W CARBON 47K 5% 1/4W	WC U.F. MODULA	CARBON 10K 5% 1/4W	CARBON 4.7K 5% 1/4W CARBON 4.7K 5% 1/4W	CARBON 10K 5%
17.	Description	CARBON 10K 5%	CARBON 10K 5% 1	CARBON 10K 5% 1/4W	CARBON 2. 2K 5% 1/4W 8. 2K 5% 1/4W	URIDON 0. LI 30 1/31	CARBON 2. 4K 5% 1	CARBON 22K 5% 1/4W	CARBON 12K 5% 1/4W	CARBON 15K 5%	CARRON 4 7K 5% 1/4W	CARBON 8. 2K 5% 1/4W	CARBON 130K 5%	CARBON 30K 5%	CARBON 10K 5%	CARBON 18K 5%	CARBON 180K 5% 1	CARBON 2. 2K 5%	CARBON 8. 2K 5%		CARBON 22K 5%	CARRON LA 3%	CARBON 2. 2K 5% 1	CARBON 100 5%	CARRON 2 7K 5% 1/4W	CARBON 10 5% 1/4W	CARBON 4.7 5%	CARBON 10K 5%	CARBON 1M 5%	CARRON 470K 5%	CARBON 470K 5%	CARBON 180 5% 1/4W	CARBON 180 5% 1/4W	CARBON 270 5% 1/4W	A COA	CARBON 160 5% 1	CARBON 240 5% 1	CARBON 160 5% 1	CARBON 330 5% 1	CARBON 10K 5%	CARBON 10K 5% 1	CARBON 2. 2K 5% 1/4W	CARBON 2.2K 5% 1/4W CARBON 47K 5% 1/4W	WC U.F. MODULA	CARBON 10K 5% 1/4W	CARBON 4.7K 5% 1/4W CARBON 4.7K 5% 1/4W	CARBON 10K 5%
17.		10K 5%	CARBON 10K 5% 1	CARBON 10K 5% 1/4W	2. 2K 5% 1/4W 8. 2K 5% 1/4W	UARDON 0. LI 3.0 L/ 3.1	CARBON 2. 4K 5% 1	12 5% 1/4W	CARBON 12K 5% 1/4W	CARBON 15K 5%	4 7K 5% 1/4W	CARBON 8. 2K 5% 1/4W	CARBON 130K 5%	CARBON 30K 5%	10K 5%	18K 5%	CARBON 180K 5% 1	CARBON 2. 2K 5%	8. 2K 5%		CARBON 22K 5%	100 5%	CARBON 2. 2K 5% 1	CARBON 100 5%	9 7K 5% 1/4W	CARBON 10 5% 1/4W	CARBON 4.7 5%	CARBON 10K 5%	CARBON 1M 5%	470K 5%	CARBON 470K 5%	CARBON 180 5% 1/4W	180 5% 1/4W	270 5% 1/4W	A COA	160 3% 1	CARBON 240 5% 1	CARBON 160 5% 1	330 5% 1	10K 5%	CARBON 10K 5% 1	CARBON 2. 2K 5% 1/4W	2. 2K 5% 1/4W	WC U.F. MODULA	CARBON 10K 5% 1/4W	4. 7K 5% 1/4W	CARBON 10K 5%
	Part No. Description	1-249-429-11 CARBON 10K 5%	1-249-429-11 CARBON 5%	1-249-429-11 CARBON 10K 5% 1/4W	1-249-421-11 CARBON 2. 2. 2K 5% 1/4W 1-249-428-11 CARBON 8. 2K 5% 1/4W	1-643-450 IVANDON O. L. A. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	1-247-840-00 CARBON 2. 4K 5% 1	1-249-433-11 CARBON 22K 5% 1/4W 1-240-417-11 CABBON 1K 5% 1/4W	1-249-430-11 CARBON 12K 5% 1/4W	1-249-431-11 CARBON 15K 5%	1-249-425-11 CARBON 4 7K 5% 1/4W	1-249-428-11 CARBON 8. 2K 5% 1/4W	1-247-882-11 CARBON 130K 5%	1-247-866-11 CARBON 5%	1-249-429-11 CARBON 10K 5%	1-249-432-11 CARBON 18K 5%	1-247-885-00 CARBON 180K 5% 1	1-249-421-11 CARBON 2. 2K 5%	1-249-428-11 CARBON 8. 2K 5% 1-247-840-00 CARBON 2. 4K 5%		1-249-433-11 CARBON 22K 5%	1-249-41/-11 CARBON 10 5%	1-249-421-11 CARBON 2. 2K 5% 1	1-249-405-11 CARBON 100 5%	1-240-422-11 CABBON 9 7K 5% 1/4W	1-249-393-11 CARBON 10 5% 1/4W	1-249-389-11 CARBON 4.7 5%	1-249-429-11 CARBON 10K 5%	1-247-903-00 CARBON 5%	1-247-805-00 CARBON 470K 5%	1-247-895-00 CARBON 470K 5%	1-249-408-11 CARBON 180 5% 1/4W	1-249-408-11 CARBON 180 5% 1/4W	1-249-410-11 CARBON 270 5% 1/4W	INCREASE AND AND AND AND AND AND AND AND AND AND	1-24/-012-11 CARDON 10U 3% 1-9/47-819-11 CARBON 160 5% 1	1-247-816-11 CARBON 240 5% 1	1-247-812-11 CARBON 160 5% 1	1-249-411-11 CARBON 330 5% 1	1-249-429-11 CARBON 10K 5%	1-249-429-11 CARBON 10K 5% 1	1-249-421-11 CARBON 2.2K 5% 1/4W	1-249-421-11 CARBON 2. 2K 5% 1/4W 1-240-437-11 CARBON 47K 5% 1/4W	WC 11. AND 11. (4.647.1	1-249-429-11 CARBON 10K 5% 1/4W	1-249-425-11 CARBON 4.7K 5% 1/4W	1-249-429-11 CARBON 10K 5%
	Description	CARBON 10K 5%	1-249-429-11 CARBON 5%	1-249-429-11 CARBON 10K 5% 1/4W	CARBON 2. 2K 5% 1/4W 8. 2K 5% 1/4W	1-643-450 IVANDON O. L. A. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	1-247-840-00 CARBON 2. 4K 5% 1	CARBON 22K 5% 1/4W	1-249-430-11 CARBON 12K 5% 1/4W	1-249-431-11 CARBON 15K 5%	CARRON 4 7K 5% 1/4W	1-249-428-11 CARBON 8. 2K 5% 1/4W	1-247-882-11 CARBON 130K 5%	1-247-866-11 CARBON 5%	CARBON 10K 5%	CARBON 18K 5%	1-247-885-00 CARBON 180K 5% 1	1-249-421-11 CARBON 2. 2K 5%	CARBON 8. 2K 5%		1-249-433-11 CARBON 22K 5%	CARRON LA 3%	1-249-421-11 CARBON 2. 2K 5% 1	1-249-405-11 CARBON 100 5%	CARRON 2 7K 5% 1/4W	1-249-393-11 CARBON 10 5% 1/4W	1-249-389-11 CARBON 4.7 5%	1-249-429-11 CARBON 5%	CARBON 1M 5%	CARRON 470K 5%	1-247-895-00 CARBON 470K 5%	1-249-408-11 CARBON 180 5% 1/4W	CARBON 180 5% 1/4W	CARBON 270 5% 1/4W	INCREASE AND AND AND AND AND AND AND AND AND AND	CARBON 160 5% 1	1-247-816-11 CARBON 240 5% 1	1-247-812-11 CARBON 160 5% 1	CARBON 330 5% 1	CARBON 10K 5%	1-249-429-11 CARBON 10K 5% 1	1-249-421-11 CARBON 2.2K 5% 1/4W	CARBON 2.2K 5% 1/4W CARBON 47K 5% 1/4W	WC 11. AND 11. (4.647.1	1-249-429-11 CARBON 10K 5% 1/4W	CARBON 4.7K 5% 1/4W CARBON 4.7K 5% 1/4W	1-249-429-11 CARBON 10K 5%

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	Remark	1/4W F 1/4W F					SED HIGH)	(NCHRO)				309:AUS) >209/D309: 1S)	K A) K B) (SPINDLE MOTOR)	****			(11)	***	
		1. 8K 5% 3. 9K 5%			(A) (REC MUTE)	₹		S461 1-554-303-21 SWITCH, TACTILE (D309) (CD SYNCHRO)		WIRE, FLAT TYPE (12 CORE) PC BOARD, MOTOR FLEXIBLE WIRE (FLAT TYPE) (22 CORE) DEVICE, OPTICAL KSS-240A	(7 CORE) (7 CORE) (27 CORE)	WIRE, FLAT TYPE (13 CORE) (D309:AUS) WIRE (FLAT TYPE) (13 CORE) (D209/D309:AEP, UK, E, G, IT, EE, EA, MY, SP, CIS)	HEAD (DECK A) HEAD (DECK B) 7 ERT) ASSY (SPINDL)	-3363-501-1 MOTOR ASSY (REEL) -729-209-15 TRANSISTOR 2SD2012 ***********************************	IALS	(10) (10)	N. (D209:AEP, IT)	1-326-6106-01	
	ption		< но		, TACTILE , TACTILE	, TACTILE		, TACTILE	MISCELLANEOUS	-575-001-11 WIRE, FLAT TYPE (12 CORE) -638-983-11 PC BOARD, WOTOR FLEXIBLE -696-634-21 WIRE (FLAT TYPE) (22 CORE) -848-144-11 DEVICE, OPTICAL KSS-240A	(FLAT TYPE) FLAT TYPE FLAT TYPE FLAT TYPE	FLAT TYPE (FLAT TYPE) K, E, G, IT, EE,	MAGNET DECK ASSY, HEAD (DEC DECK ASSY, HEAD (DEC IC M5F79M07 BASE (QUTSERT) ASSY MOTOR ASSY (CAPSTAN)	ASSY (REEL) STOR 2SD201 *********	ACCESSORIES & PACKING MATERIALS	STICKER, SONY SYMBOL (CLASS 1 DUAL CART	******** *******	
	Description	11 CARBON 11 CARBON	< SWITCH >		21 SWITCH, 21 SWITCH,	21 SWITCH, 21 SWITCH,		21 SWITCH,	MISCEL *****	11 WIRE, 11 PC BOA 21 WIRE (11 DEVICE	WIRE, Wire, Wire,	31 WIRE, 11 WIRE (AEP, UK	11 MAGNET A DECK ASSY, A DECK ASSY, 95 IC M5F79M07 -3 BASE (OUTSE -1 MOTOR ASSY	-1 MOTOR ASSY 15 TRANSISTOR ************************************	IES & PAC *******	41 STICKE	01 LABEL, 01 INDIVI	01 CUSHIO *******	
	Part No.	1-249-420-11 CARBON 1-249-424-11 CARBON	1	1-554-303-21 1-554-303-21 1-554-303-21	1-554-303-21 1-554-303-21	1-554-303-21	1-554-303-21 1-554-303-21 1-554-303-21	1-554-303-21		1-575-001-11 WIRE, FLAT TYPE (12 CORE) 1-638-983-11 PC BOARD, MOTOR FLEXIBLE 1-696-634-21 WIRE (FLAT TYPE) (22 COR 8-848-144-11 DEVICE, OPTICAL KSS-240A	1-751-209-11 1-590-574-11 1-590-485-11 1-690-729-11	1-690-589-31 1-751-210-11	161 1-452-538-11 MAGNET HF901 A-2003-838-A DECK ASSY, HEAD (DEC HRPE901A-2004-190-A DECK ASSY, HEAD (DEC 10302 8-759-604-95 1C MSF79M07 M101 X-4917-523-3 BASE (OUTSERT) ASSY M901 X-3359-417-1 MOTOR ASSY (CAPSTAN)	X-3363-501-1 MOTOR ASSY (REEL) 8-729-209-15 TRANSISTOR 2SD2012 ***********************************	ACCESSOR ******	3-703-713-41 STICKER,	4-941-548-01 LABEL, CLASS 1 4-957-503-01 INDIVIDUAL CARTON	4-958-6ub-01 COSHION (DZO9:AEr, 11)	
	Ref. No.	R498 R499		S451 S452 S453	S454 S455	S456 S457	3430 S459 S460	S461 *******		€	56 64 65	71	* 161 HP901 HRPE90 IC302 M101 M901	M902 Q302 ******		* 10	* *	**	
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					10 20 20 11 21 21	26 26	2%		1 -1 -	VR) Ton Mode				(60	÷		26 26 26 26 26 26	6 % 56 %	976
1			TH10		150 5% 220 5% 680 5%	_	12K 5%	(STOP)	€ ₹€	DOLBY NR) DIRECTION MODE	ARD ***	OR 13P	CD TH10	CD (D309)	,	% % ಬೆ ಬೆ	330 5% 470 5% 330 5%	470 5% 680 5%	
	ion		12410E-TH10 12810A 2810A	% > %		_	12K	CTILE	-	SLIDE (DOLBY NR) SLIDE (DIRECTION MODE)	(B) BOARD ******** TOR >	CONNECTOR 13P	.2210S-CD .2810A .2410E-TH10 .2810A	.2210S-CD (D309) .2210S-CD .2210S-CD	OR >	% % ಬೆ ಬೆ			
	scription	DIODE >	0DE SEL2410E-TH10 D SEL2810A D SFL2810A	SS	150 220 680	1K 5. 6K	12K	H > TACTILE	TACTILE TACTILE TACTILE	ITCH, SLIDE (DOLBY NR) ITCH, SLIDE (DIRECTION MODE	PANEL (B) BOARD ************** CONNECTOR >	CKET, CONNECTOR 13P DIODE >	D SEL2210S-CD D SEL2810A ODE SEL2410E-TH10 D SEL2810A D SEL2810A	SEL2210S-CD SEL2210S-CD SEL2210S-CD	RESISTOR >	150 5% 220 5%	330 470 330	470 680	IK
	Description	< DIODE >	65 DIODE SEL2410E-TH10 49 LED SEL2810A 49 LED SEL2810A	SS	CARBON 150 CARBON 220 CARBON 680	1K 5. 6K	12K	H > TACTILE	SWITCH, TACTILE SWITCH, TACTILE SWITCH, TACTILE SWITCH, TACTILE	11 SWITCH, SLIDE (DOLBY NR) 11 SWITCH, SLIDE (DIRECTION MODI	11 TC PANEL (B) BOARD ************* < CONNECTOR >	11 SOCKET, CONNECTOR 13P < DIODE >		SEL2210S-CD SEL2210S-CD SEL2210S-CD	< RESISTOR >	CARBON 150 5% CARBON 220 5%	330 470 330	470 680	IK
	Part No. Description	< DIODE >	띺	SS	150 220 680	CARBON 1K CARBON 5. 6K	12K	CTILE	TACTILE TACTILE TACTILE	1-572-269-11 SWITCH, SLIDE (DOLBY NR) 1-572-268-11 SWITCH, SLIDE (DIRECTION MODI	1-646-888-11 TC PANEL (B) BOARD ************ < CONNECTOR >	1-568-443-11 SOCKET, CONNECTOR 13P < DIODE >	땅	SEL2210S-CD SEL2210S-CD SEL2210S-CD	< RESISTOR >	CARBON 150 5% CARBON 220 5%	330 470 330	470 680	
		< 900IQ >	D481 8-719-313-65 DIODE SEL2410E-TH10 D482 8-719-301-49 LED SEL2810A D483 8-719-301-49 LED SEL2810A	< RESI	CARBON 150 CARBON 220 CARBON 680	1-249-417-11 CARBON 1K 1-249-426-11 CARBON 5. 6K	12K	H > TACTILE	1-554-303-21 SWITCH, TACTILE 1-554-303-21 SWITCH, TACTILE 1-554-303-21 SWITCH, TACTILE 1-554-303-21 SWITCH, TACTILE	1-572-269-11 SWITCH, SLIDE 1-572-268-11 SWITCH, SLIDE	* 1-646-888-11 TC PANEL (B) BOARD ************************************	CN452 1-568-443-11 SOCKET, CONNECTOR 13P < DIODE >		SEL2210S-CD SEL2210S-CD SEL2210S-CD	< RESISTOR >	CARBON 150 5% CARBON 220 5%	330 470 330	1-249-413-11 CARBON 470 1-249-415-11 CARBON 680	IK

Description Ref. No. Part No.

7-685-646-79 SCREW +BVTP 3X8 TYPE2 N-S 7-621-775-10 SCREW +B 2. 6X4 7-621-255-15 SCREW +P 2X3 7-621-775-00 SCREW +B 2. 6X3 7-627-556-08 SCREW +P 2. 6X2. 8